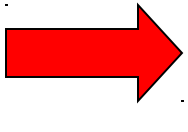
FORT FUTURE Tools: Sustainable Installation Modeling

STO # IV.EN.2002.02

Dr. Michael Case – Special Project Officer

Outline

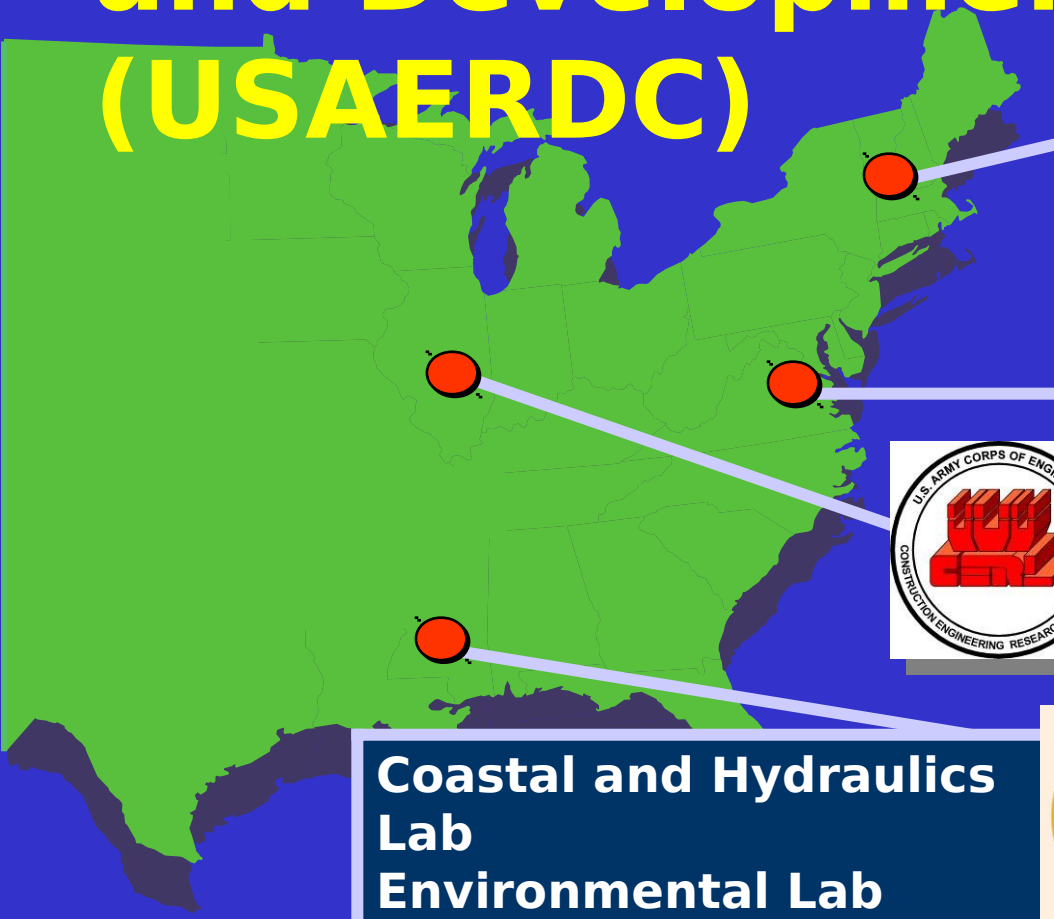


- Introduction
- Requirements
- Scope
- System Design
- Schedule
- Planning Study Walkthrough
- Prototypes
- How you can get involved

Environmental Quality and Installations

ERDC Engineer Research and Development Center

U.S Army Engineer Research and Development Center (USAERDC)



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U.S. ARMY TOPOGRAPHIC ENGINEERING CENTER
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Fort Belvoir,
Virginia

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CONSTRUCTION ENGINEERING RESEARCH LABORATORIES

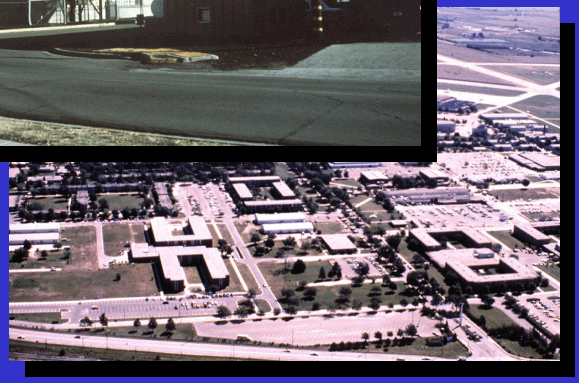
Champaign,
Illinois

U.S. ARMY ENGINEER WATERWAYS EXPERIMENT STATION

Vicksburg,
Mississippi

Coastal and Hydraulics Lab
Environmental Lab
Geotechnical & Structures Lab
Information Technology Lab

CERL Mission Areas



Installation Operations

Facilities Acquisition and Revitalization

Military Land Management

Environmental Quality and

ERDC Engineer Research and Development Center

"One ERDC….Providing Technologies for the Transformed Army

What is Fort Future?

Fort Future is a decision support and planning tool that helps users to create installation plans and to evaluate them using modeling and simulation

Fort Future is:

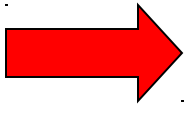
- Web-based
- Collaborative
- A Sustainable Installation Planning Tool

Environmental Quality and Installations

Product

- Inputs
  - Human judgment
  - GIS
  - STAMIS (IFS, ISR, RPLANS, etc)
- Outputs
  - Analysis Documents
  - Visualizations
  - Planning documents (e.g., a Future Development Plan)
  - NEPA documentation

Outline



- Introduction
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- User Interface Mockup
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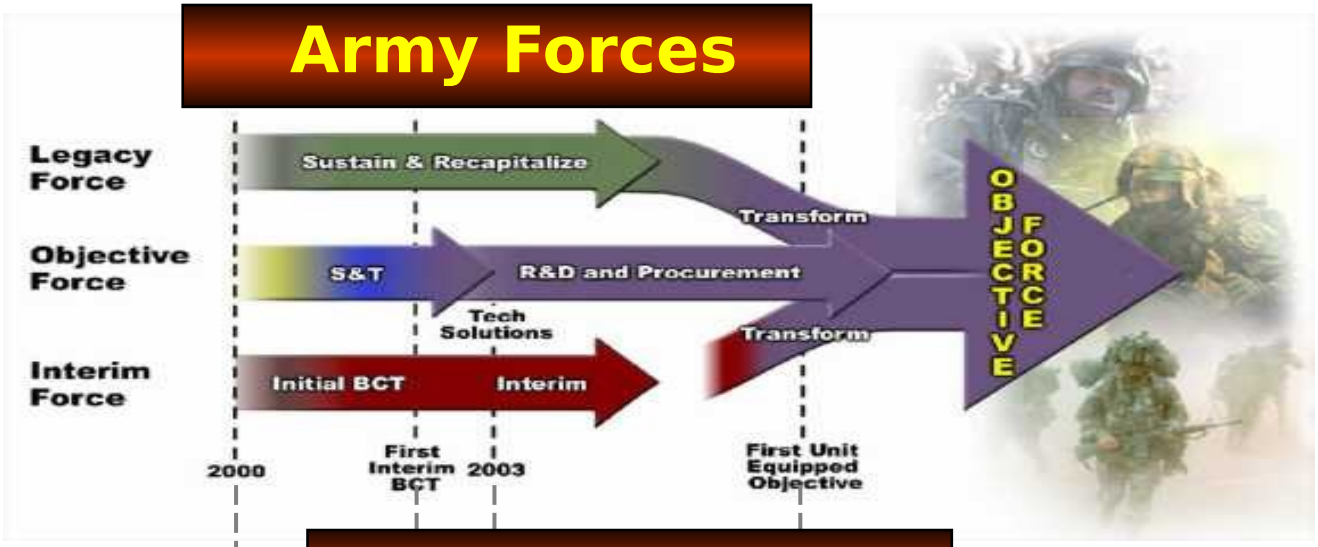
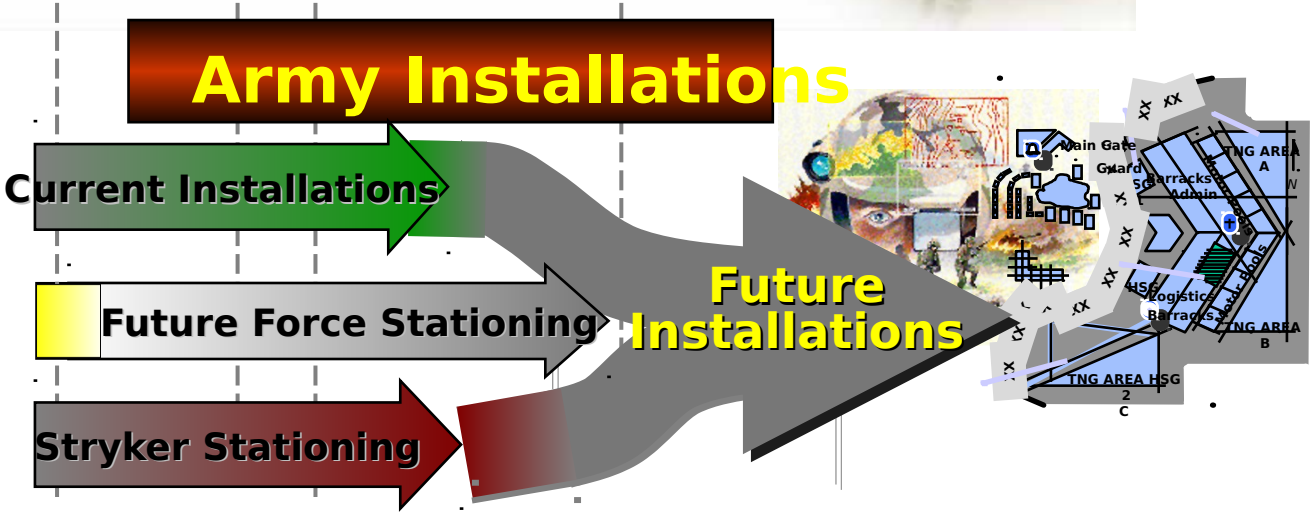
Environmental Quality and Installations

ERDC Engineer Research and Development Center

Transformation Campaign Plan: LO12





Environmental Quality and Installations

New Complex Installation Requirements…

- Equipping
- Stationing
- Fielding

- **Power Projection Platforms** upgraded transportation systems
- **Combat Preparation and Sustainment Bases** sustainable training
- **Secure Sanctuaries** passive and active systems
- **Information Hubs** new infrastructure
- **Holistic Communities** modern, pleasant installations, linkage to community

… demand complex analysis capability

TOFFLER ASSOCIATES®

Installation Transformation Wargame FY03

Executive Summary of Final Report

Bob Bivins, Tom Johnson, Steven Kenney, Richard Szafranski, Rocky Wilkinson

August 26, 2003

302 Harbor's Point . 40 Beach Street . Manchester, Massachusetts 01944

978-526-2444 . Facsimile: 978-526-2445 . Email: tofflerassociates@toffler.com

Capabilities Needed

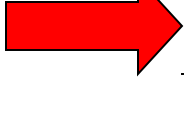
Results from 2 ACSIM/USACE Installation Planning Wargames validate requirements for:

- Better way to link mission requirements, equipment, and infrastructure
- "Meta-planning" capability – I.e., better planning
- Ability to assess power projection capability, risk, and cost.
- Adaptable, agile, responsive planning & construction
- Better way to integrate Force Protection considerations in planning decisions
- Assured viability of Training Assets over time

Balancing total Army needs and meeting Transformation pace requires means of exploring possible solutions before committing limited resources

Environmental Quality and Installations

Outline



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Environmental Quality and Installations

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Imagine a Virtual Installation …

JV Fort Future: <Fort Bragg>
File Edit View Run Tools
Select Mode: Zoom
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Resolution: 1.9104359 meters/pixel (1:5560)
Message: Drag box using left mouse button to zoom in on area

Environmental Quality and Installations

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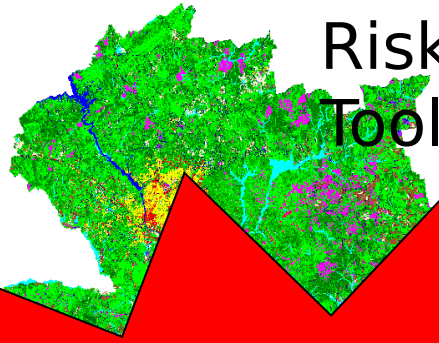
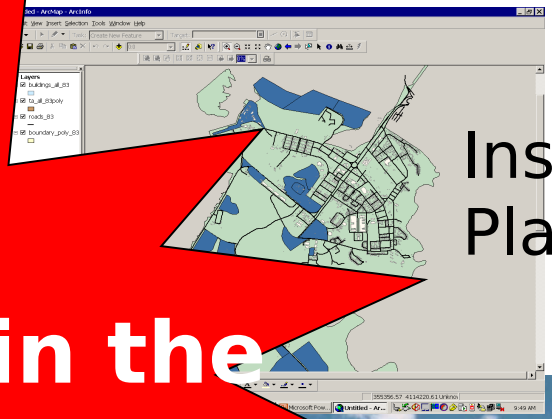
Fort Future Tools for Complex, Integrated Analysis

Risk and Encroachment Tools

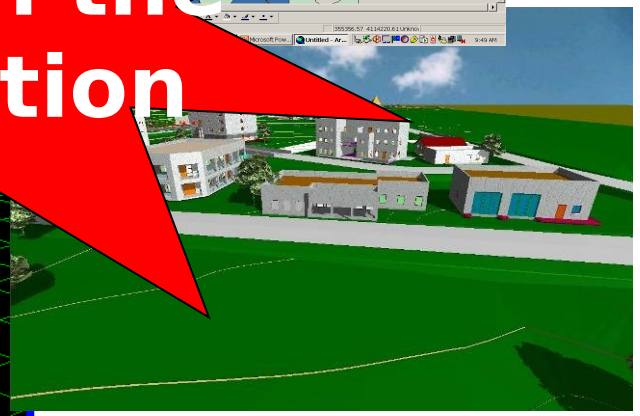


Power Projection Planner

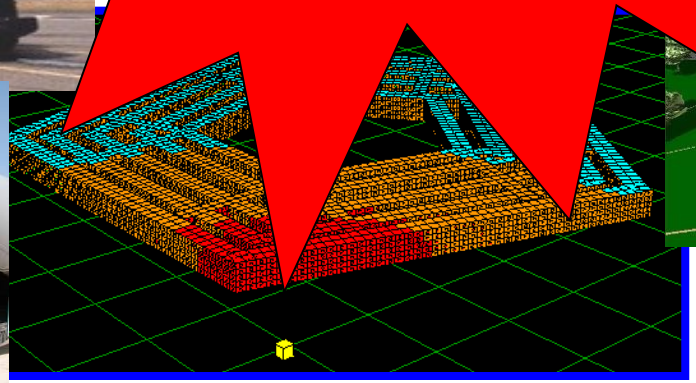
What if?
Study options in the Virtual Installation



Installation Planner



Facility Composer

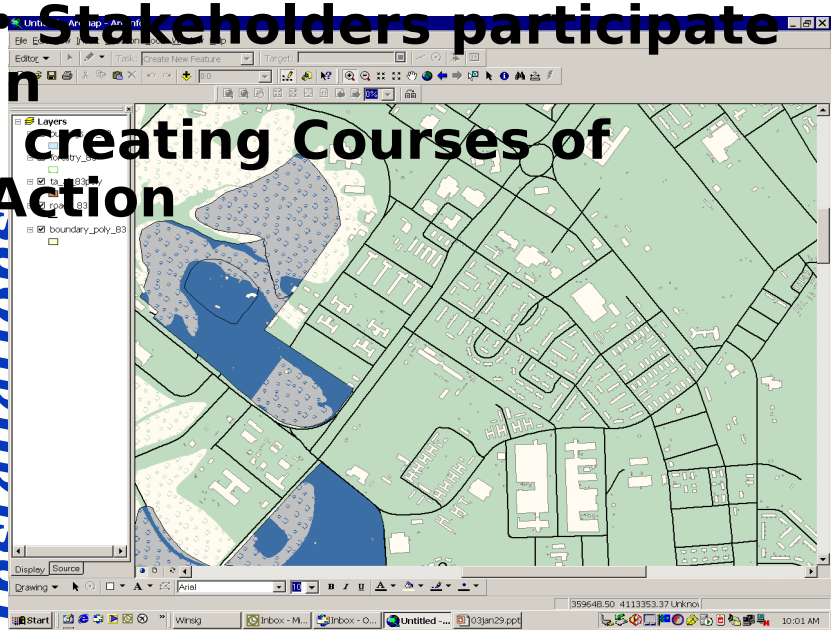


Force Protection Tools

Integrated Installation Plan

Environmental Quality and Installations

- Planning tool is the integrator
- METL tool captures mission requirements
- Stakeholders participate in creating Courses of Action



- Run analyses across functional areas
- Visualize outcomes
- Responsive Master Plan generation

Requirement: Balance multiple mission needs for the lo

Power Projection Planner

Environmental Quality and Installations

- **Model Deployment Processes**
- **Assess ability of infrastructure to support deployment**
- **Explore infrastructure option**
  - **Time**
  - **Cost**
  - **Risk**
- **Single or multiple installations**

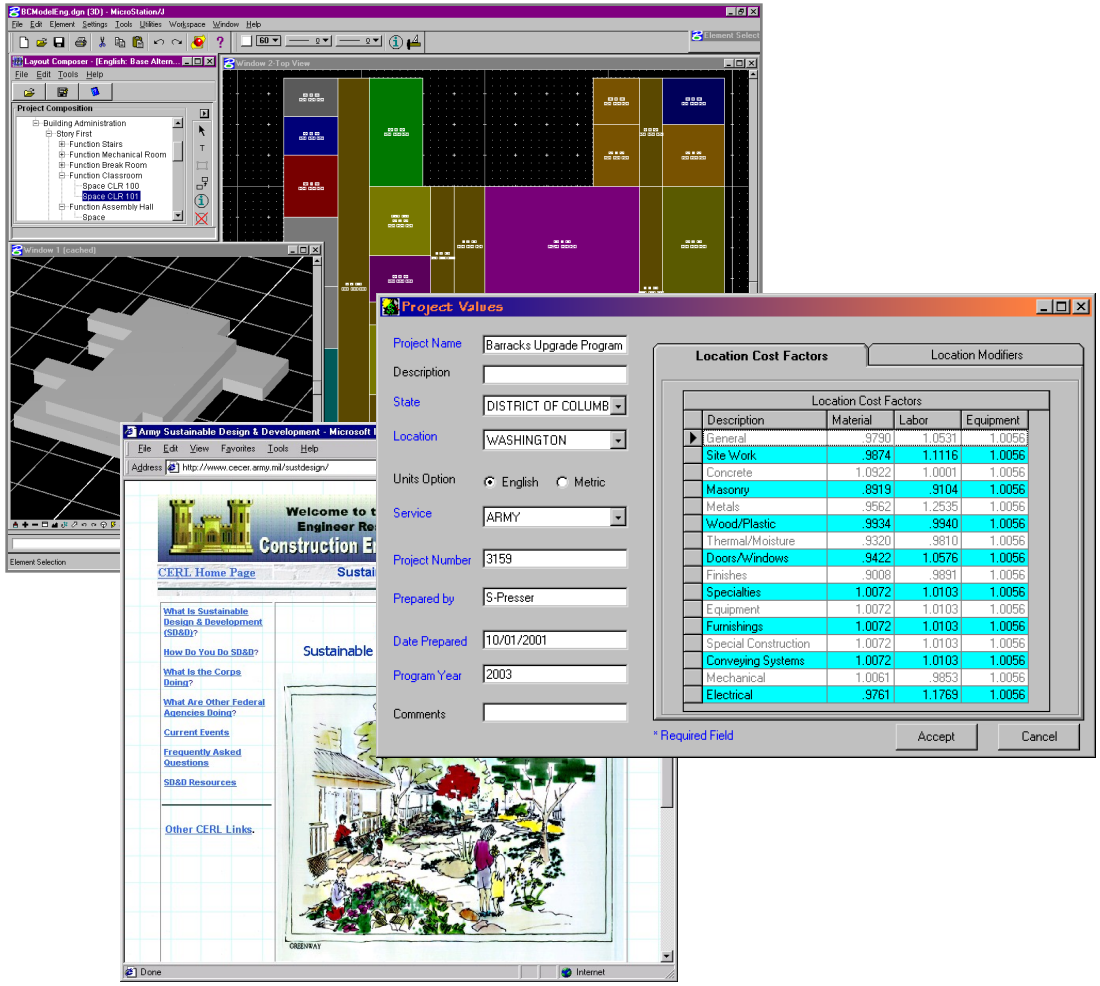
Requirement: Risk-based approach to investme

Facility Composer

Environmental Quality and Installations

- Capture and appl

  Unit Set Fielding criteria and requirements
- Rapidly estimate design and cost
- Design sustainable Facilities
- Incorporate Lessons-learned



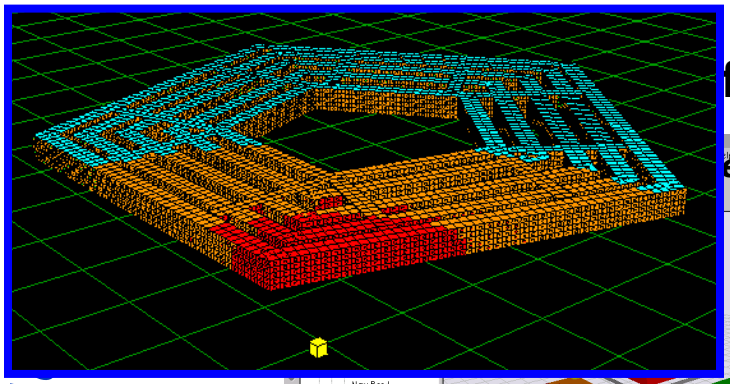
Requirement: Assure facilities ready for OF fie

Force Protection Tools

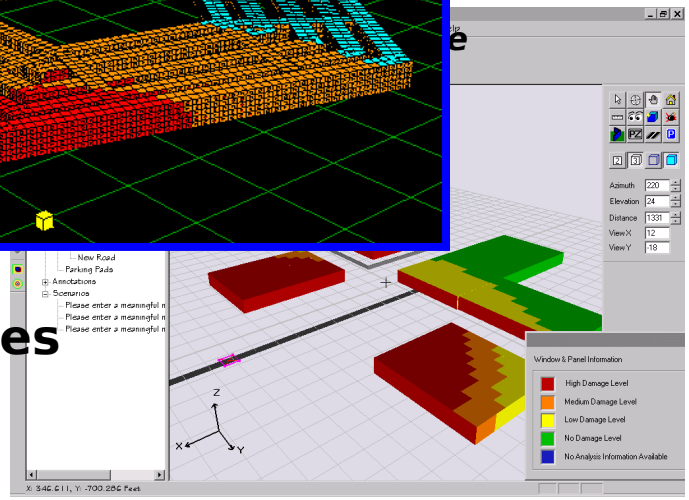
- **Determine infrastructure vulnerability to blast or CBR attack**

- **Assess impact of attack on human life and mission**

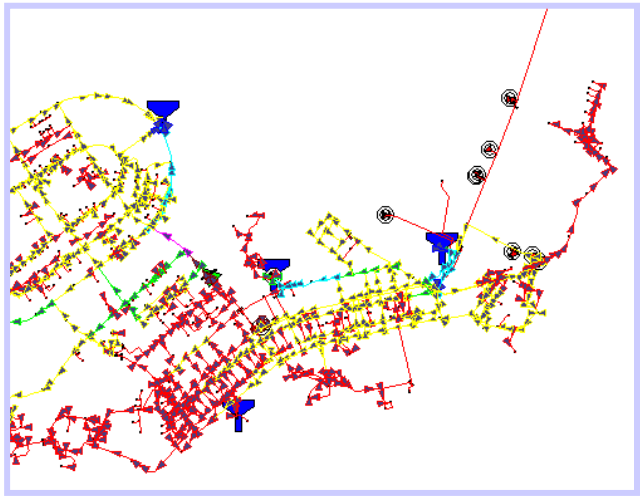
Airborne CBR attack



facilities



Facilities



Water system CBR attack

Requirement: Meet new security threats

Environmental Quality and Installa

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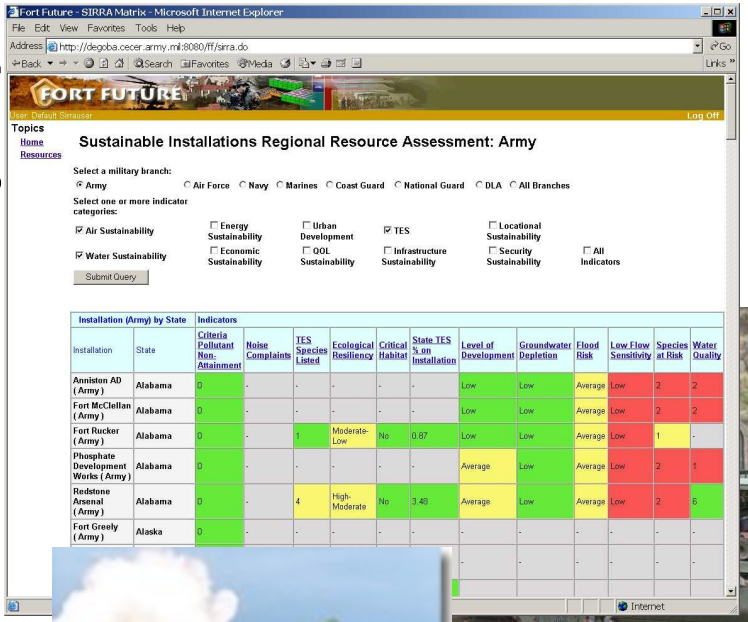
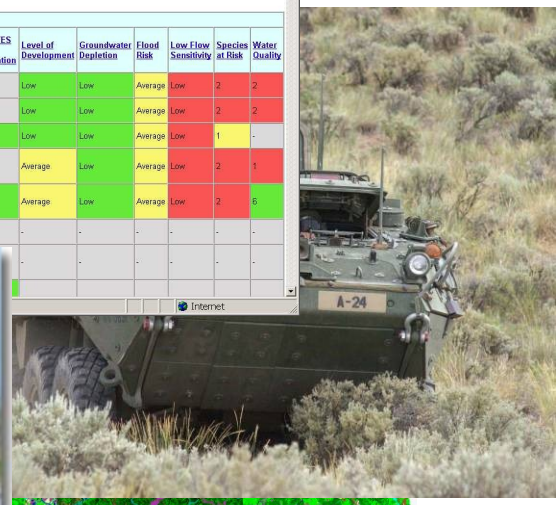
Risk & Encroachment Tools

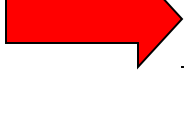
- **National Risk Assessment**
- **Analyze encroachment ris**
  - **Frequency**
  - **Noise**
  - **Dust, smokes, & obscurants**
  - **Endangered species**
- **Detect impact on historic and cultural resources**





Requirement: Maximize Training Opportunities

Outline



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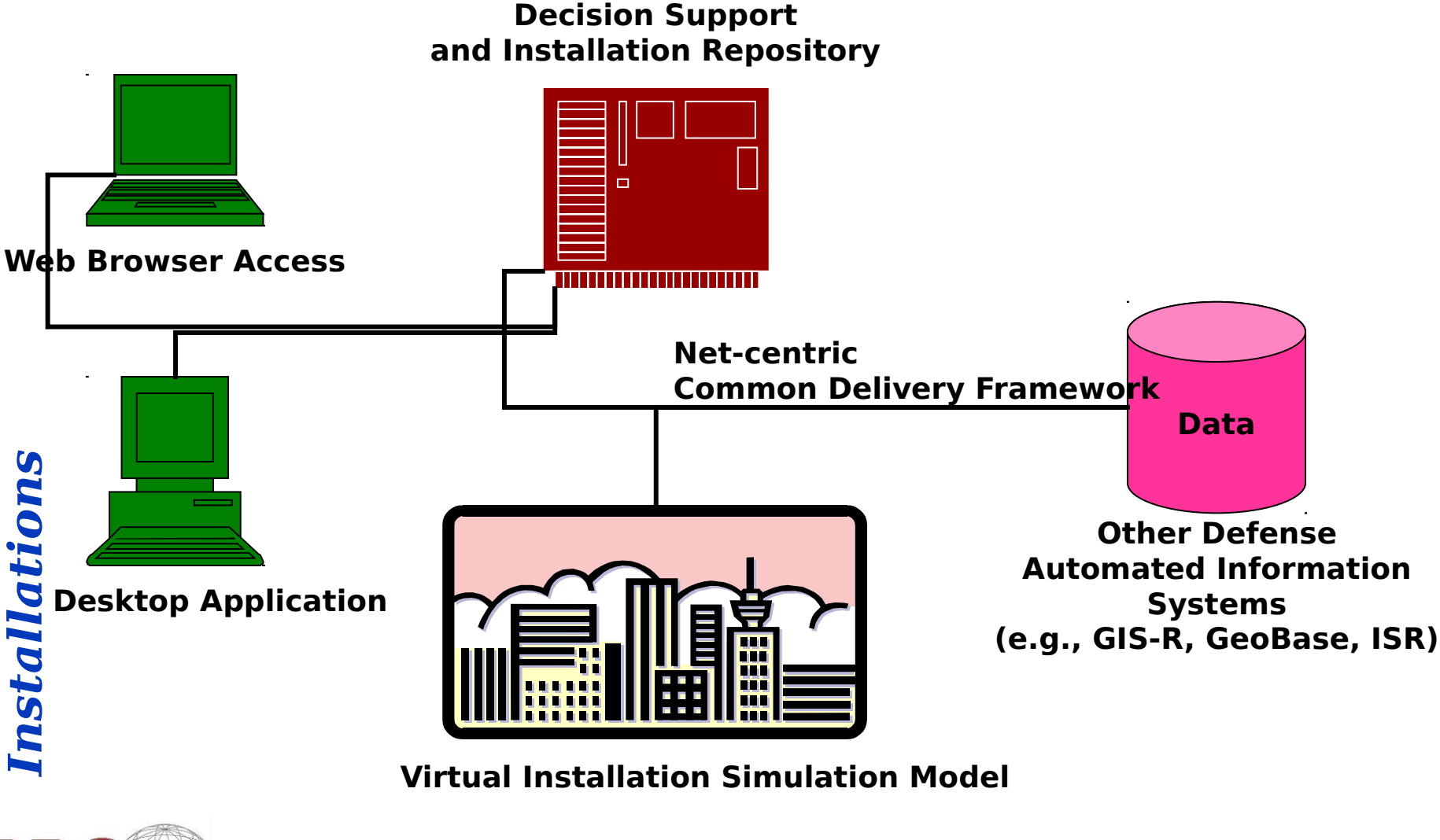
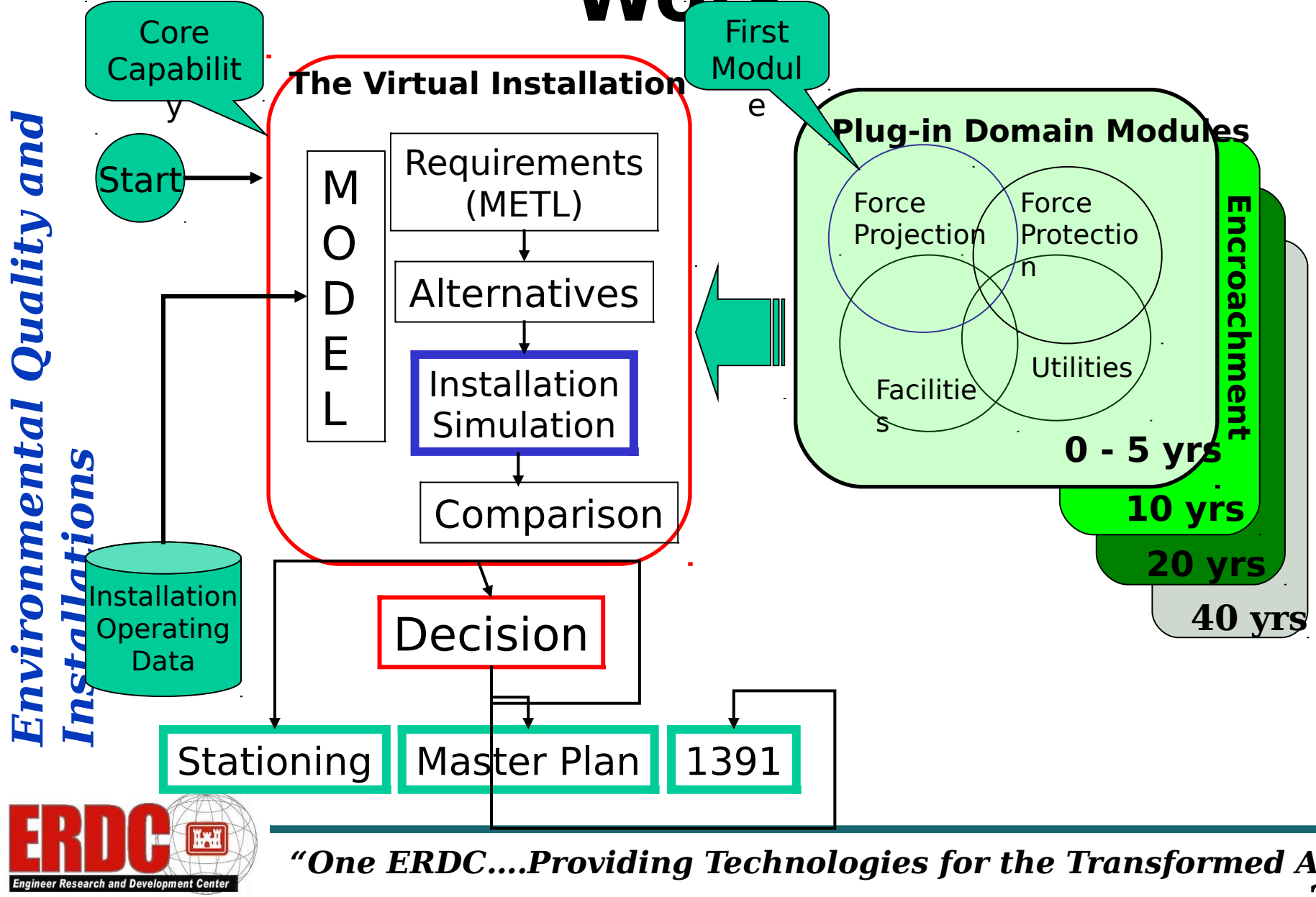
Environmental Quality and Installations

Components

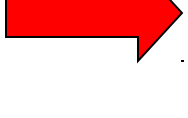


Environmental Quality and Installations

How Fort Future Tools Will Work



Outline



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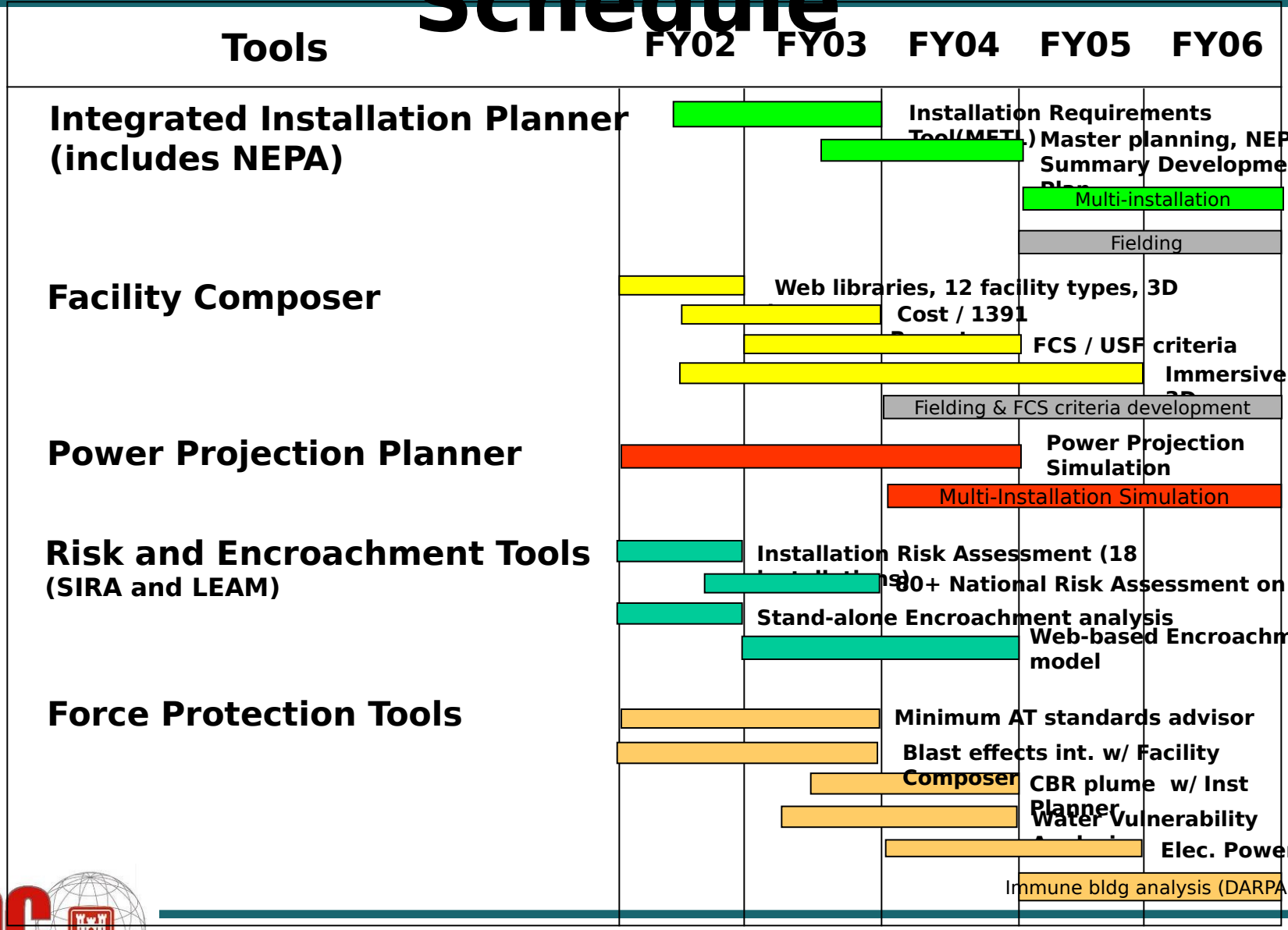
Environmental Quality and Installations

Fort Future Tools Schedule



Environmental Quality and Installations

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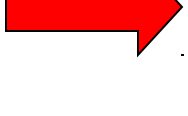

Environmental Quality and Installations

ERDC Engineer Research and Development Center

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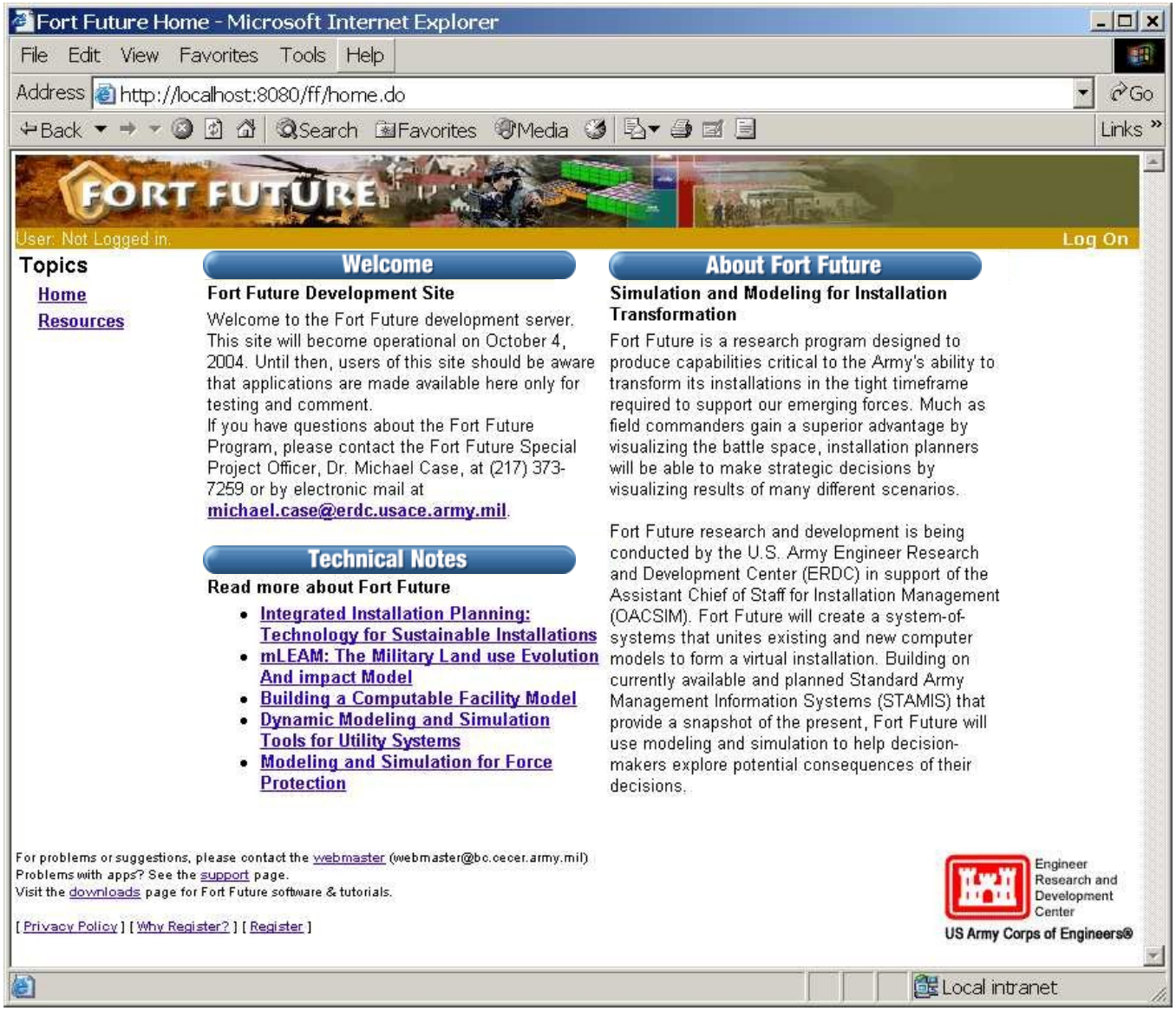
Home Page

Site Map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Address http://localhost:8080/ff/home.do
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FORT FUTURE
User: Not Logged in.
Log On
Topics
Home
Resources
Welcome
Fort Future Development Site
Welcome to the Fort Future development server. This site will become operational on October 4, 2004. Until then, users of this site should be aware that applications are made available here only for testing and comment.
If you have questions about the Fort Future Program, please contact the Fort Future Special Project Officer, Dr. Michael Case, at (217) 373-7259 or by electronic mail at michael.case@erdc.usace.army.mil.
Technical Notes
Read more about Fort Future
Integrated Installation Planning: Technology for Sustainable Installations
mLEAM: The Military Land use Evolution And impact Model
Building a Computable Facility Model
Dynamic Modeling and Simulation Tools for Utility Systems
Modeling and Simulation for Force Protection
About Fort Future
Simulation and Modeling for Installation Transformation
Fort Future is a research program designed to produce capabilities critical to the Army's ability to transform its installations in the tight timeframe required to support our emerging forces. Much as field commanders gain a superior advantage by visualizing the battle space, installation planners will be able to make strategic decisions by visualizing results of many different scenarios.
Fort Future research and development is being conducted by the U.S. Army Engineer Research and Development Center (ERDC) in support of the Assistant Chief of Staff for Installation Management (OACSIM). Fort Future will create a system-of-systems that unites existing and new computer models to form a virtual installation. Building on currently available and planned Standard Army Management Information Systems (STAMIS) that provide a snapshot of the present, Fort Future will use modeling and simulation to help decision-makers explore potential consequences of their decisions.
For problems or suggestions, please contact the webmaster (webmaster@bc.cecer.army.mil)
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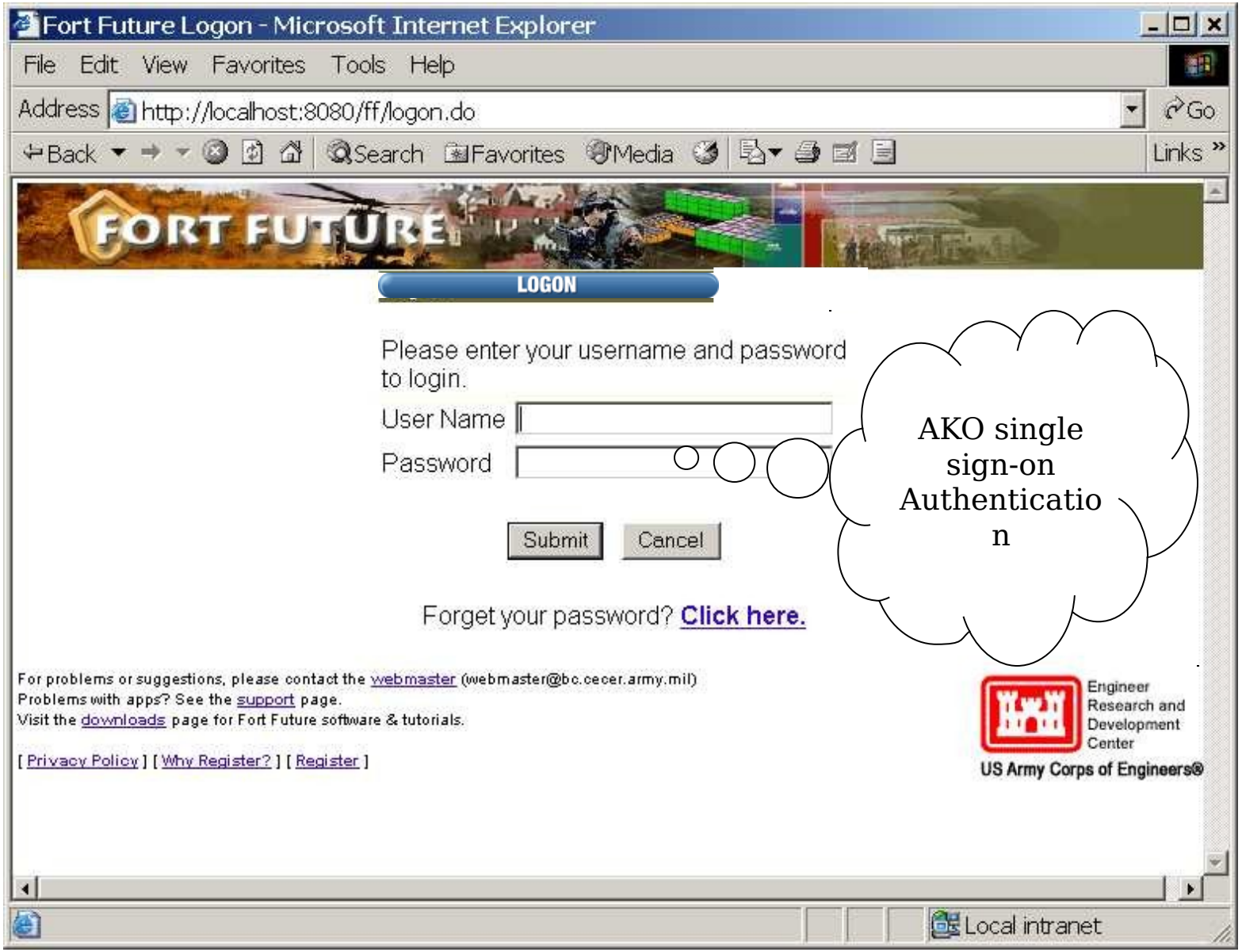
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Password
Submit
Cancel
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AKO single sign-on Authentication
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Problems with apps? See the support page.
Visit the downloads page for Fort Future software & tutorials.
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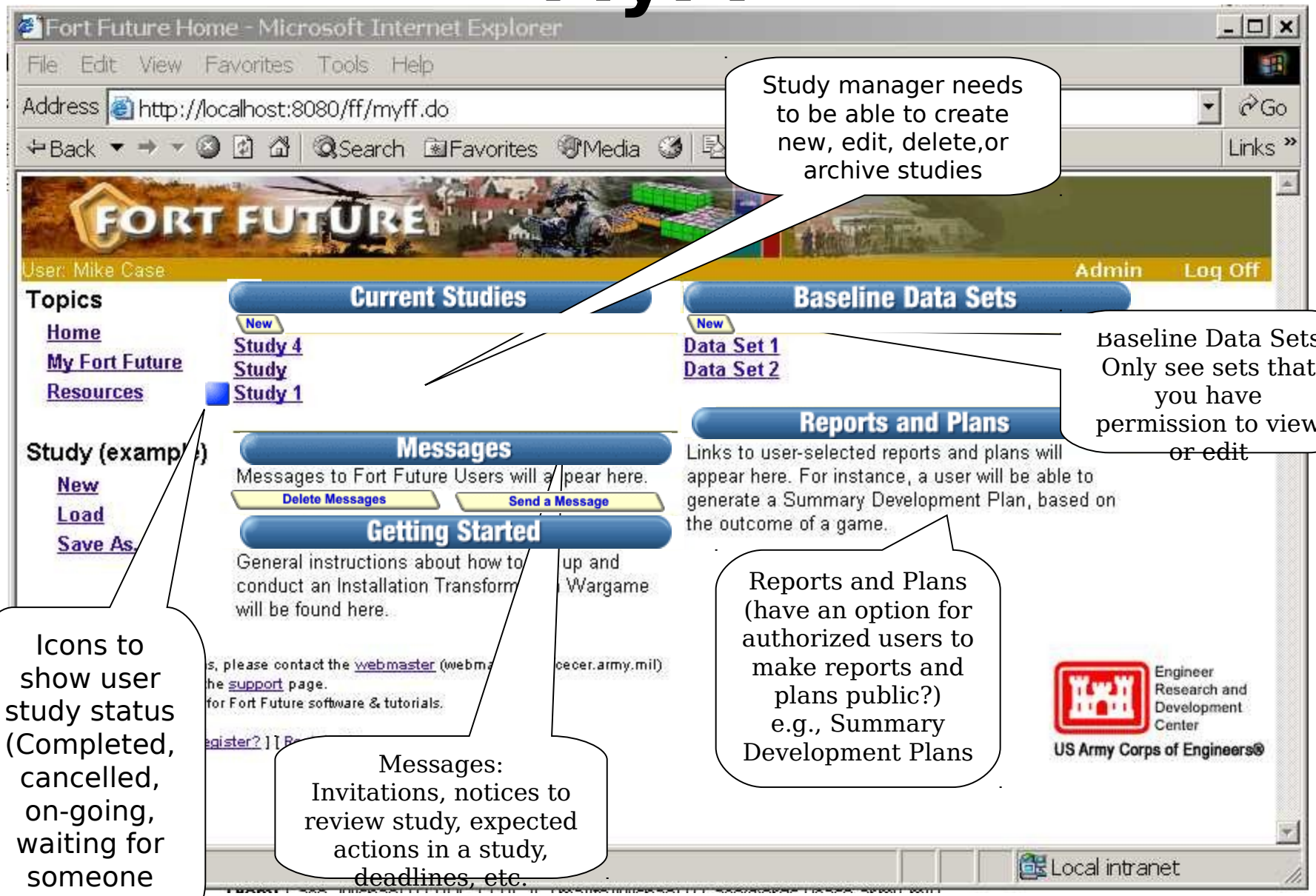
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FORT FUTURE
User: Mike Case
Admin
Log Off
Topics
Home
My Fort Future
Resources
Study (example)
New
Load
Save As
Current Studies
New
Study 4
Study
Study 1
Baseline Data Sets
New
Data Set 1
Data Set 2
Messages
Messages to Fort Future Users will appear here.
Delete Messages
Send a Message
Getting Started
General instructions about how to up and conduct an Installation Transform Wargame will be found here.
Reports and Plans
Links to user-selected reports and plans will appear here. For instance, a user will be able to generate a Summary Development Plan, based on the outcome of a game.
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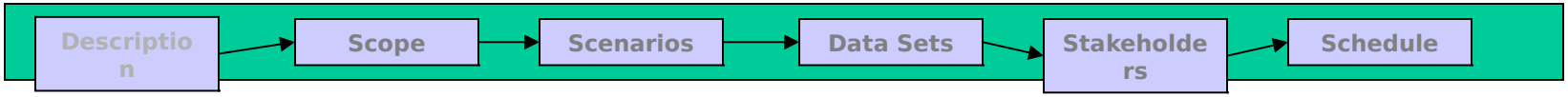
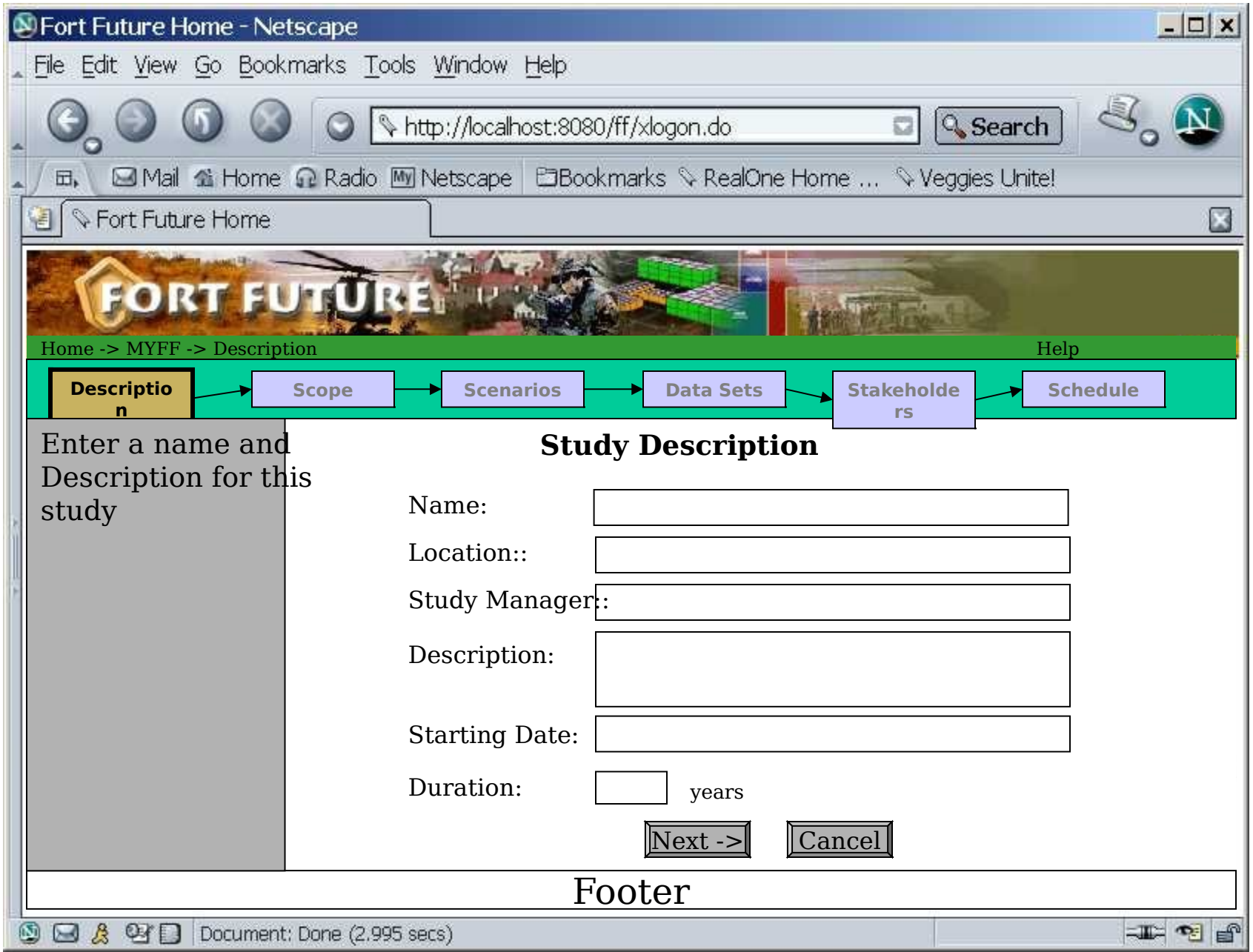
Study manager needs to be able to create new, edit, delete,or archive studies
Baseline Data Sets Only see sets that you have permission to view or edit
Icons to show user study status (Completed, cancelled, on-going, waiting for someone else, Urgent Your turn!
Messages: Invitations, notices to review study, expected actions in a study, deadlines, etc.
Reports and Plans (have an option for authorized users to make reports and plans public?) e.g., Summary Development Plans

Now we will begin to SETUP the study, including the Baseline Data or Virtual Installation

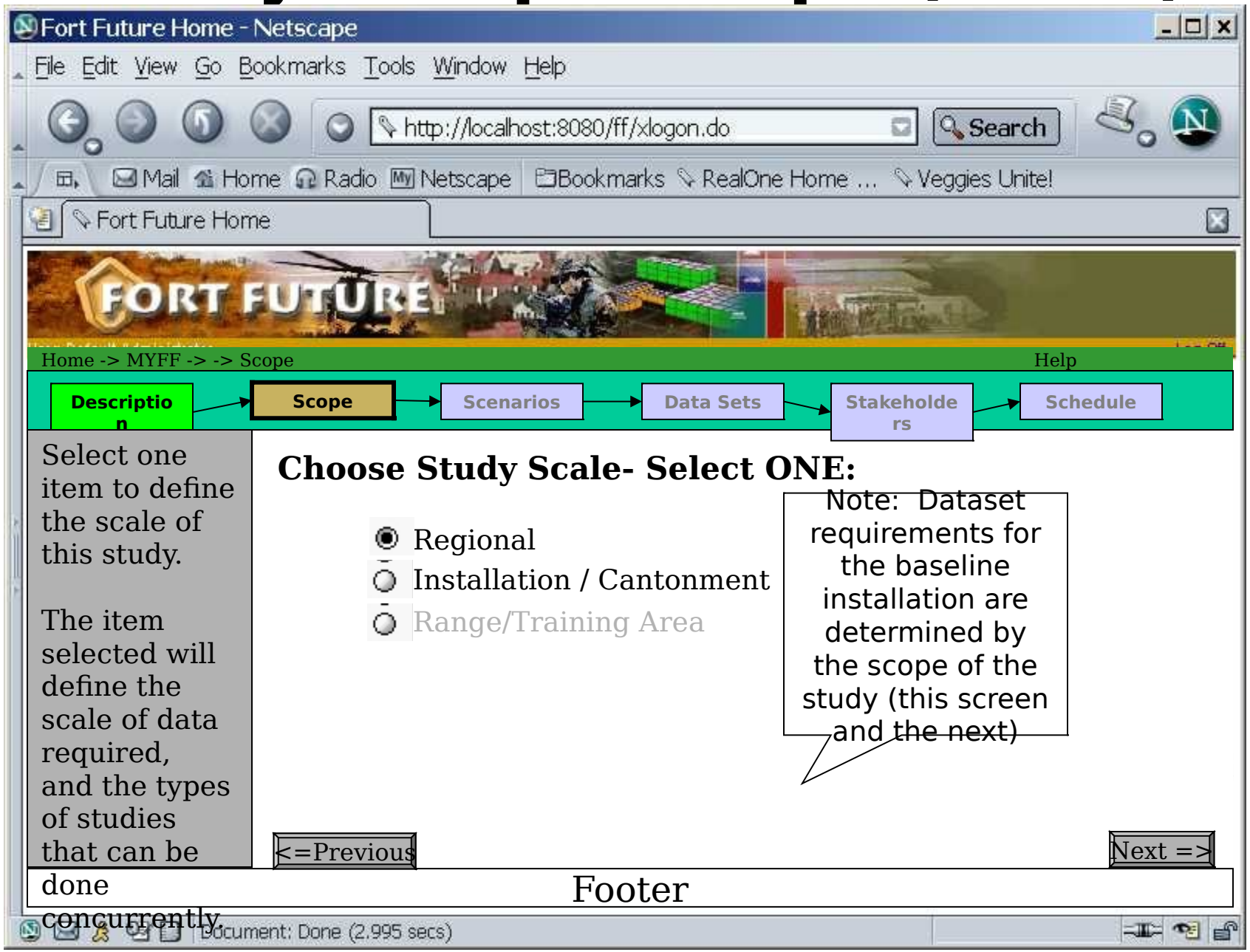


We are using a metaphor similar to that used by TurboTax

Study Setup - Description



Study Setup – Scope (Scale)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Search
Mail Home Radio Netscape Bookmarks RealOne Home ... Veggies Unite!
Fort Future Home
FORT FUTURE
Home -> MYFF -> -> Scope
Help
Description
Scope
Scenarios
Data Sets
Stakeholders
Schedule
Select one item to define the scale of this study.
The item selected will define the scale of data required, and the types of studies that can be done concurrently.
Choose Study Scale- Select ONE:
Regional
Installation / Cantonment
Range/Training Area
Note: Dataset requirements for the baseline installation are determined by the scope of the study (this screen and the next)
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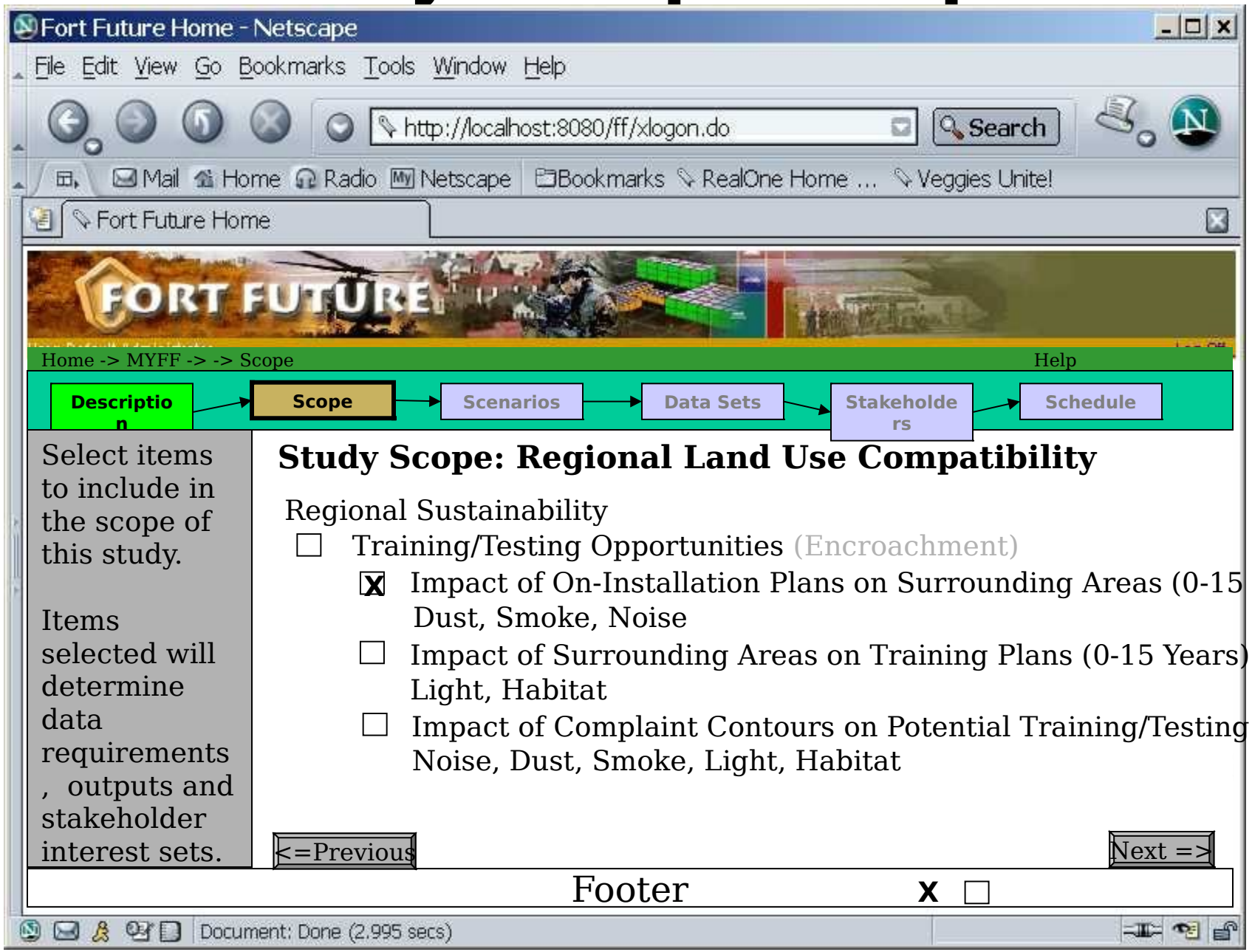
Study Setup – Scope


Fort Future Home - Netscape
File Edit View Go Bookmarks Tools Window Help
http://localhost:8080/ff/xlogon.do
Search
Mail Home Radio Netscape Bookmarks RealOne Home ... Veggies Unite!
Fort Future Home
FORT FUTURE
Home -> MYFF -> -> Scope
Help
Description
Scope
Scenarios
Data Sets
Stakeholders
Schedule
Select items to include in the scope of this study.
Items selected will determine data requirements, outputs and stakeholder interest sets.
Study Scope: Regional Land Use Compatibility
Regional Sustainability
☐ Training/Testing Opportunities (Encroachment)
☒ Impact of On-Installation Plans on Surrounding Areas (0-15 Years)
Dust, Smoke, Noise
☐ Impact of Surrounding Areas on Training Plans (0-15 Years)
Light, Habitat
☐ Impact of Complaint Contours on Potential Training/Testing (10-5
Noise, Dust, Smoke, Light, Habitat
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Next =>
Footer
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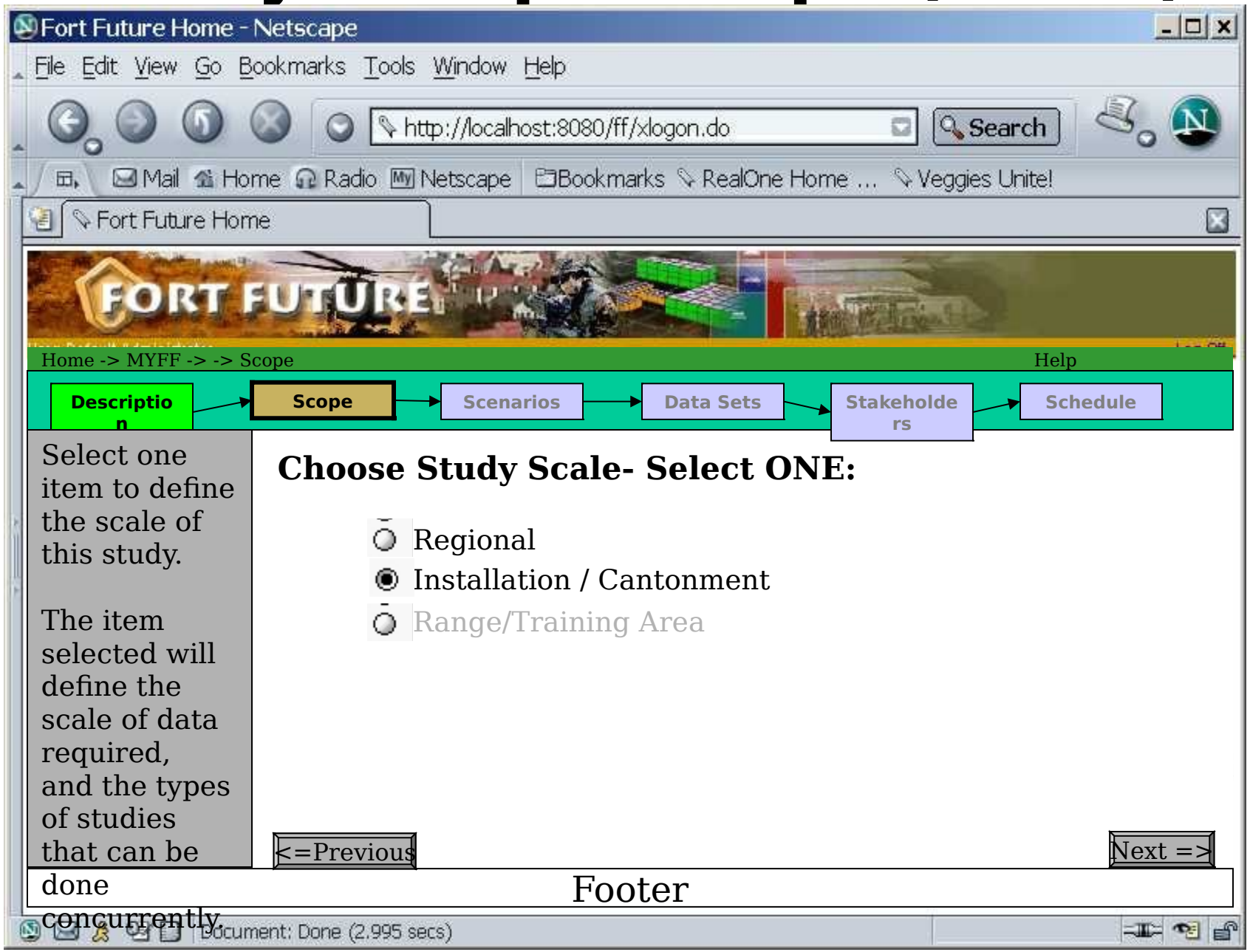
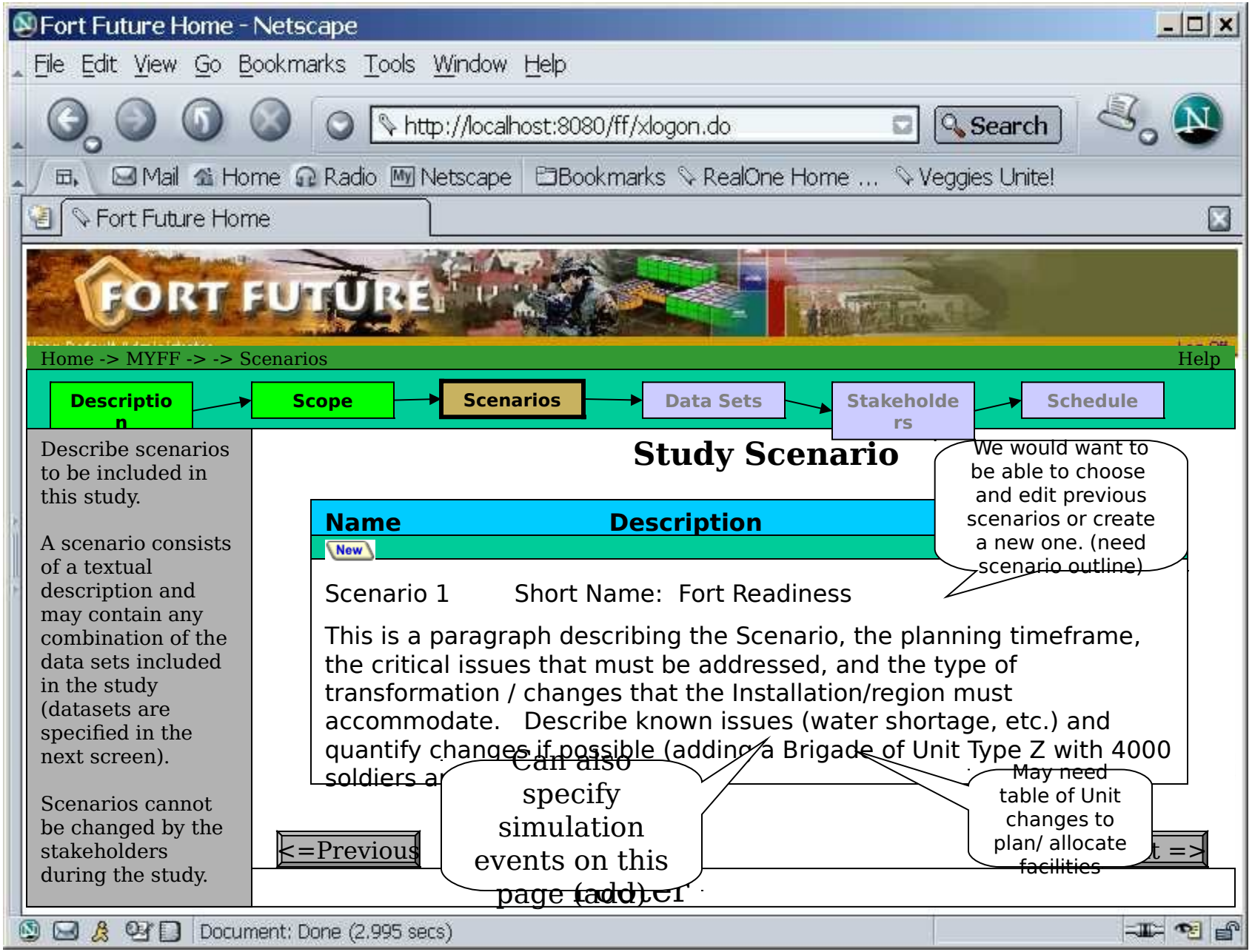
Study Setup – Scope (Scale)

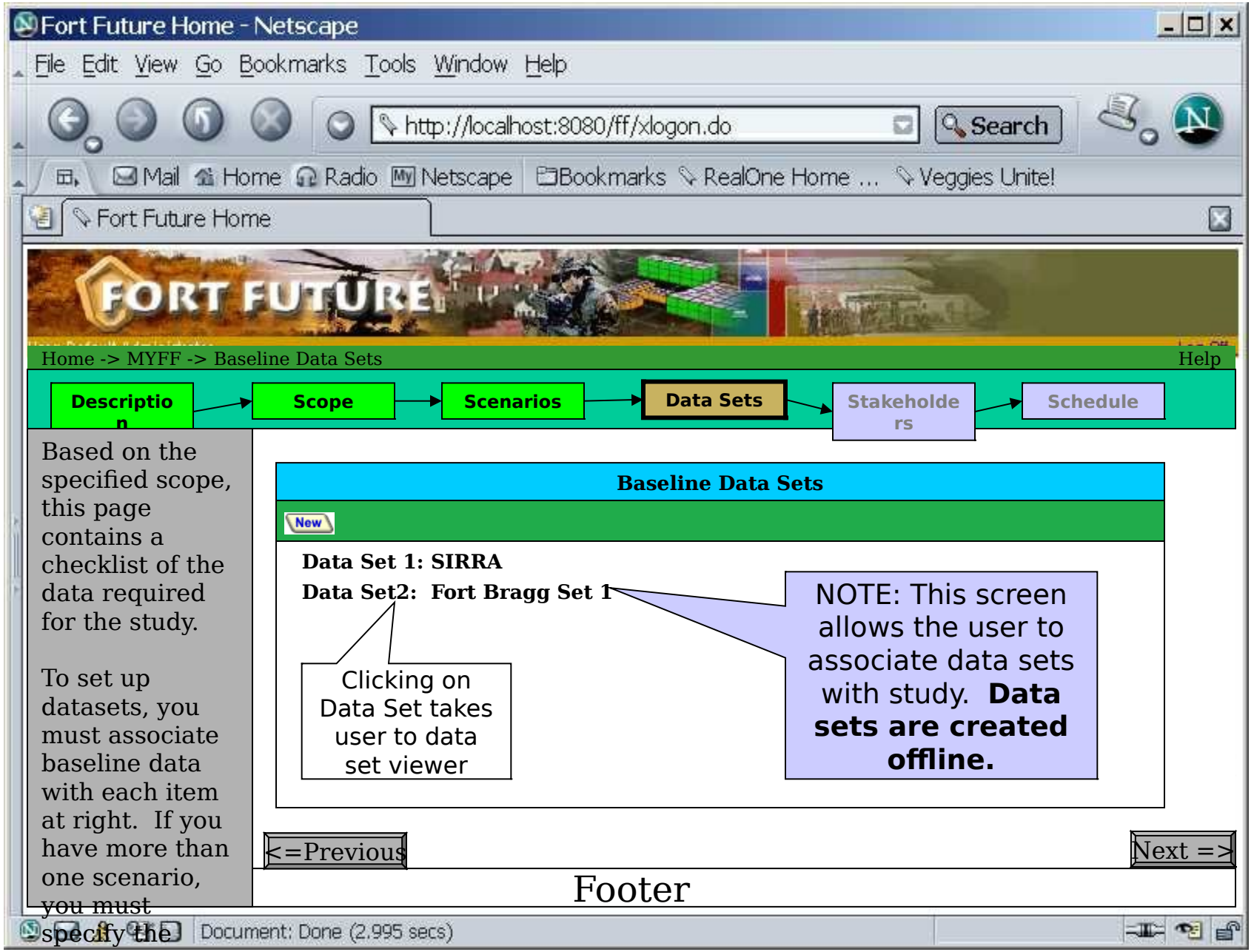


Study Setup – Scope (Plan)

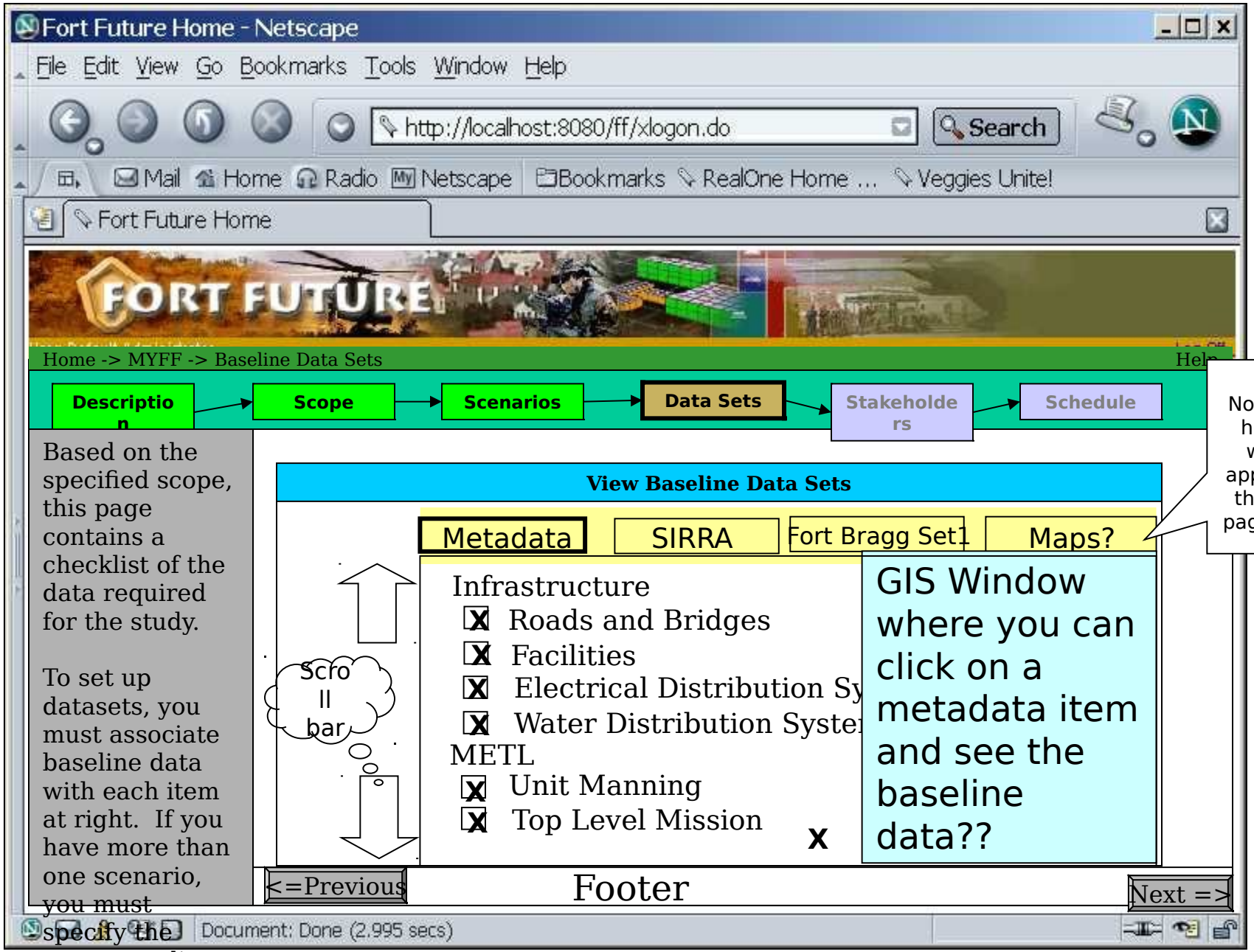
Study Setup - Scenarios


Fort Future Home - Netscape
File Edit View Go Bookmarks Tools Window Help
http://localhost:8080/ff/xlogon.do
Search
Mail Home Radio Netscape Bookmarks RealOne Home ... Veggies Unite!
Fort Future Home
FORT FUTURE
Home -> MYFF -> -> Scenarios
Help
Description
Scope
Scenarios
Data Sets
Stakeholders
Schedule
Describe scenarios to be included in this study.
A scenario consists of a textual description and may contain any combination of the data sets included in the study (datasets are specified in the next screen).
Scenarios cannot be changed by the stakeholders during the study.
Study Scenario
We would want to be able to choose and edit previous scenarios or create a new one. (need scenario outline)
Name
Description
New
Scenario 1
Short Name: Fort Readiness
This is a paragraph describing the Scenario, the planning timeframe, the critical issues that must be addressed, and the type of transformation / changes that the Installation/region must accommodate. Describe known issues (water shortage, etc.) and quantify changes if possible (adding a Brigade of Unit Type Z with 4000 soldiers a
Can also specify simulation events on this page (add)
May need table of Unit changes to plan/ allocate facilities
<=Previous
t =>
Document: Done (2.995 secs)

Baseline Data Sets page

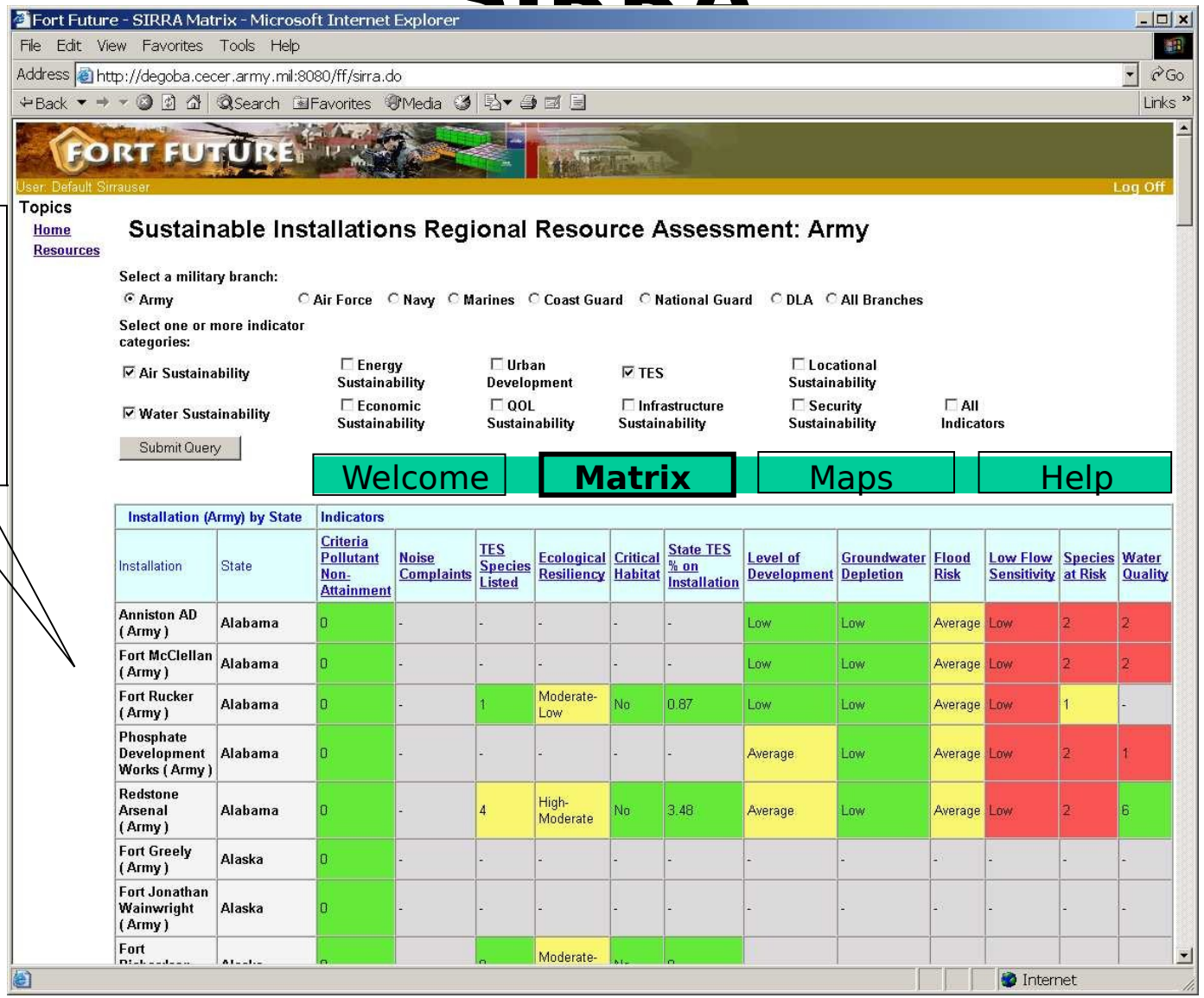

Fort Future Home - Netscape
File Edit View Go Bookmarks Tools Window Help
http://localhost:8080/ff/xlogon.do
Search
Mail Home Radio Netscape Bookmarks RealOne Home ... Veggies Unite!
Fort Future Home
FORT FUTURE
Home -> MYFF -> Baseline Data Sets
Help
Description
Scope
Scenarios
Data Sets
Stakeholders
Schedule
Based on the specified scope, this page contains a checklist of the data required for the study.
To set up datasets, you must associate baseline data with each item at right. If you have more than one scenario, you must specify the corresponding
Baseline Data Sets
New
Data Set 1: SIRRA
Data Set2: Fort Bragg Set 1
Clicking on Data Set takes user to data set viewer
NOTE: This screen allows the user to associate data sets with study. Data sets are created offline.
<=Previous
Next =>
Footer
Document: Done (2.995 secs)

Baseline Data Set Viewer page


Fort Future Home - Netscape
File Edit View Go Bookmarks Tools Window Help
http://localhost:8080/ff/xlogon.do
Search
Mail Home Radio Netscape Bookmarks RealOne Home ... Veggies Unite!
Fort Future Home
FORT FUTURE
Home -> MYFF -> Baseline Data Sets
Help
Description
Scope
Scenarios
Data Sets
Stakeholders
Schedule
Note, this header would appear on the next page also?
Based on the specified scope, this page contains a checklist of the data required for the study.
To set up datasets, you must associate baseline data with each item at right. If you have more than one scenario, you must specify the corresponding
View Baseline Data Sets
Metadata
SIRRA
Fort Bragg Set1
Maps?
Scroll bar
Infrastructure
Roads and Bridges
Facilities
Electrical Distribution Sy
Water Distribution Syste
METL
Unit Manning
Top Level Mission
x
GIS Window where you can click on a metadata item and see the baseline data??
<=Previous
Footer
Next =>
Document: Done (2.995 secs)

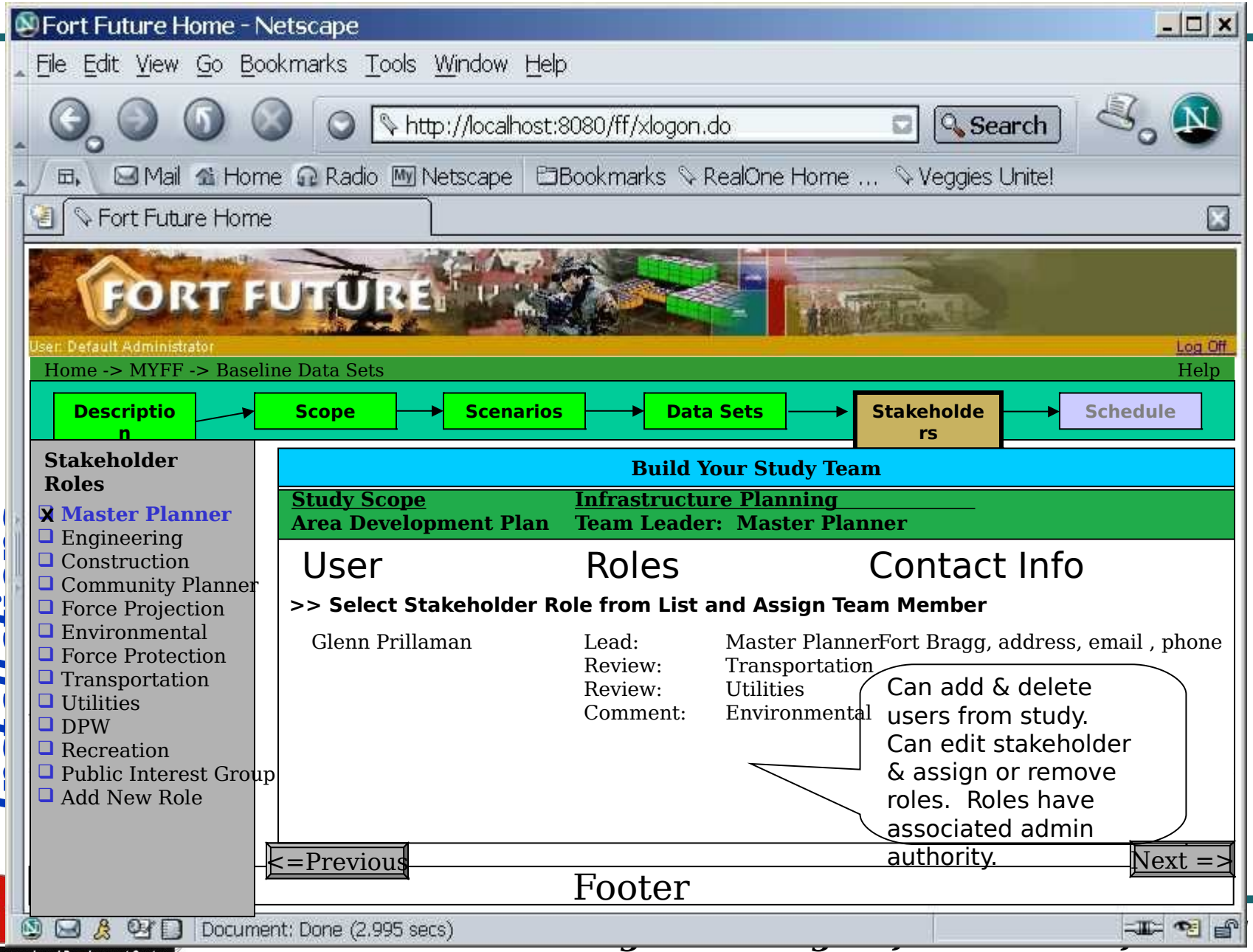
View Baseline Dataset – SIRRA

Need to wrap SIRRA with basic navigation bar, header & footers

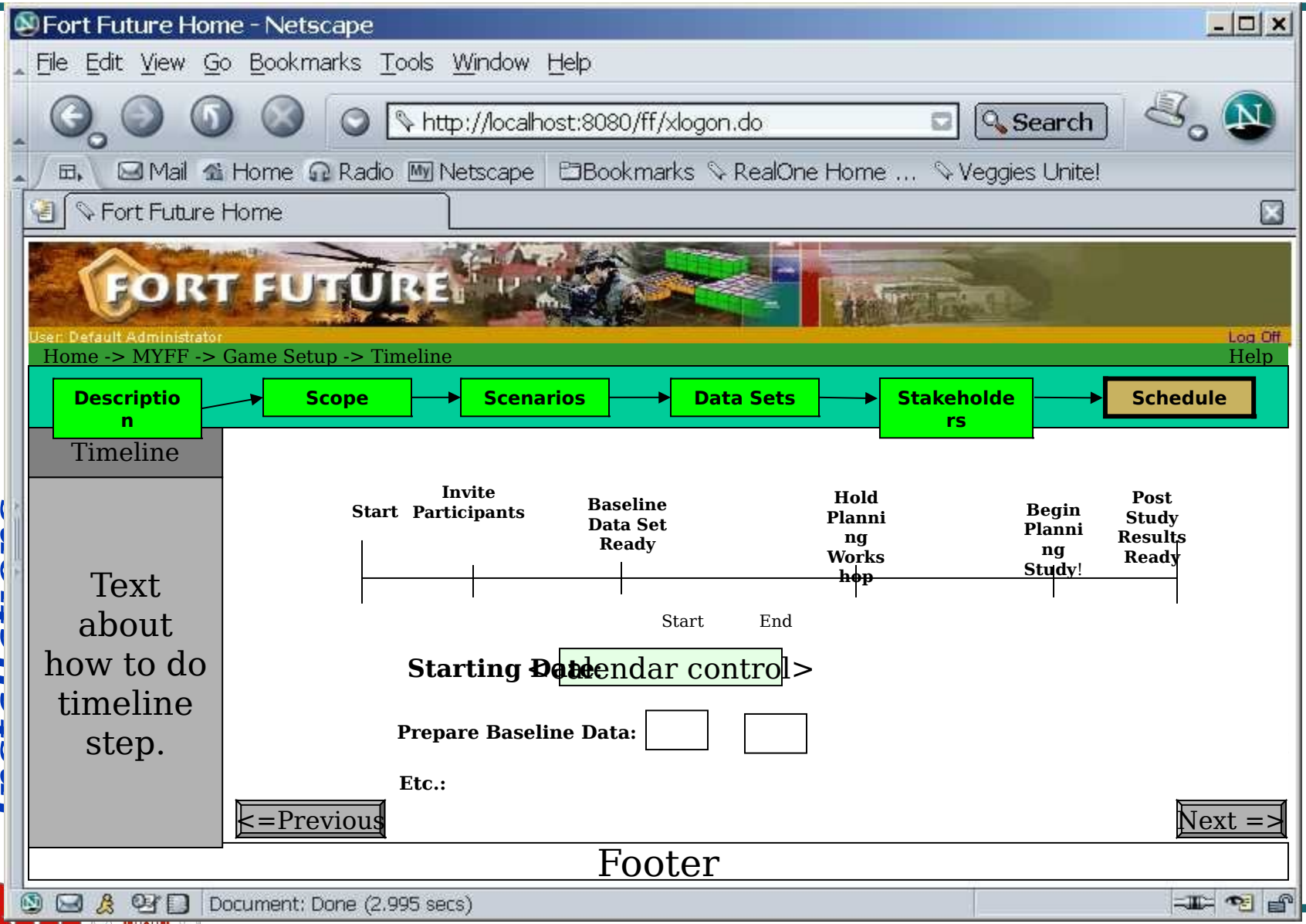


Installation (Army) by State		Indicators											
Installation	State	Criteria Pollutant Non-Attainment	Noise Complaints	TES Species Listed	Ecological Resiliency	Critical Habitat	State TES % on Installation	Level of Development	Groundwater Depletion	Flood Risk	Low Flow Sensitivity	Species at Risk	Water Quality
Anniston AD (Army)	Alabama	0	-	-	-	-	-	Low	Low	Average	Low	2	2
Fort McClellan (Army)	Alabama	0	-	-	-	-	-	Low	Low	Average	Low	2	2
Fort Rucker (Army)	Alabama	0	-	1	Moderate-Low	No	0.87	Low	Low	Average	Low	1	-
Phosphate Development Works (Army)	Alabama	0	-	-	-	-	-	Average	Low	Average	Low	2	1
Redstone Arsenal (Army)	Alabama	0	-	4	High-Moderate	No	3.48	Average	Low	Average	Low	2	6
Fort Greely (Army)	Alaska	0	-	-	-	-	-	-	-	-	-	-	-
Fort Jonathan Wainwright (Army)	Alaska	0	-	-	-	-	-	-	-	-	-	-	-
Fort					Moderate-								

Study Setup - Stakeholders

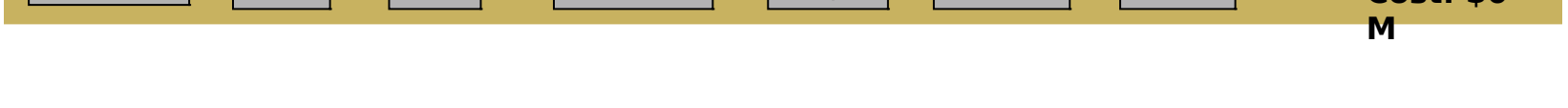


Study Setup – schedule

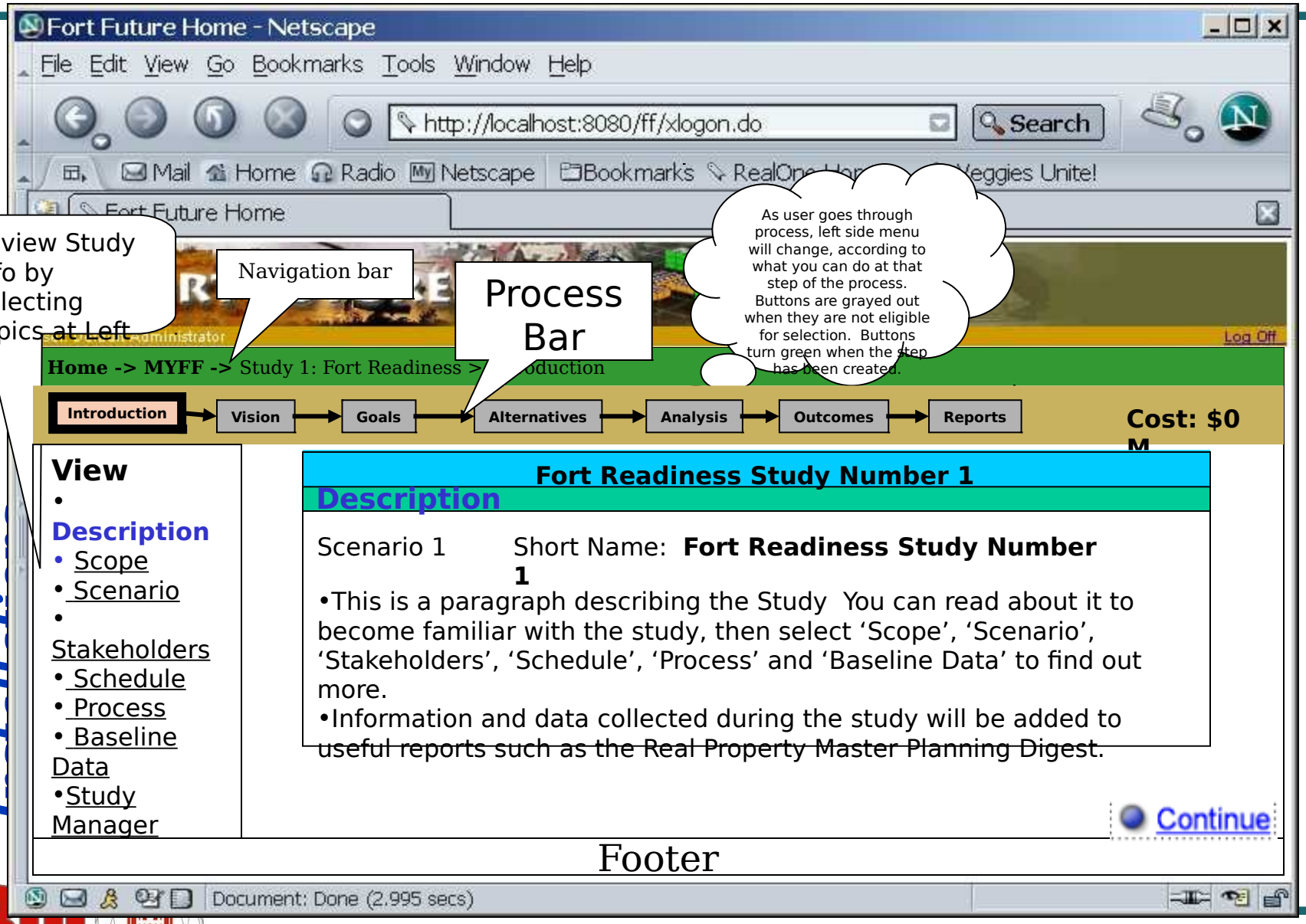


Example Screens for a Fort Future Planning Study at an Installation

- After the study setup is complete (behind the scene), the user will be guided through the Planning Study process with the next sequence of screens.

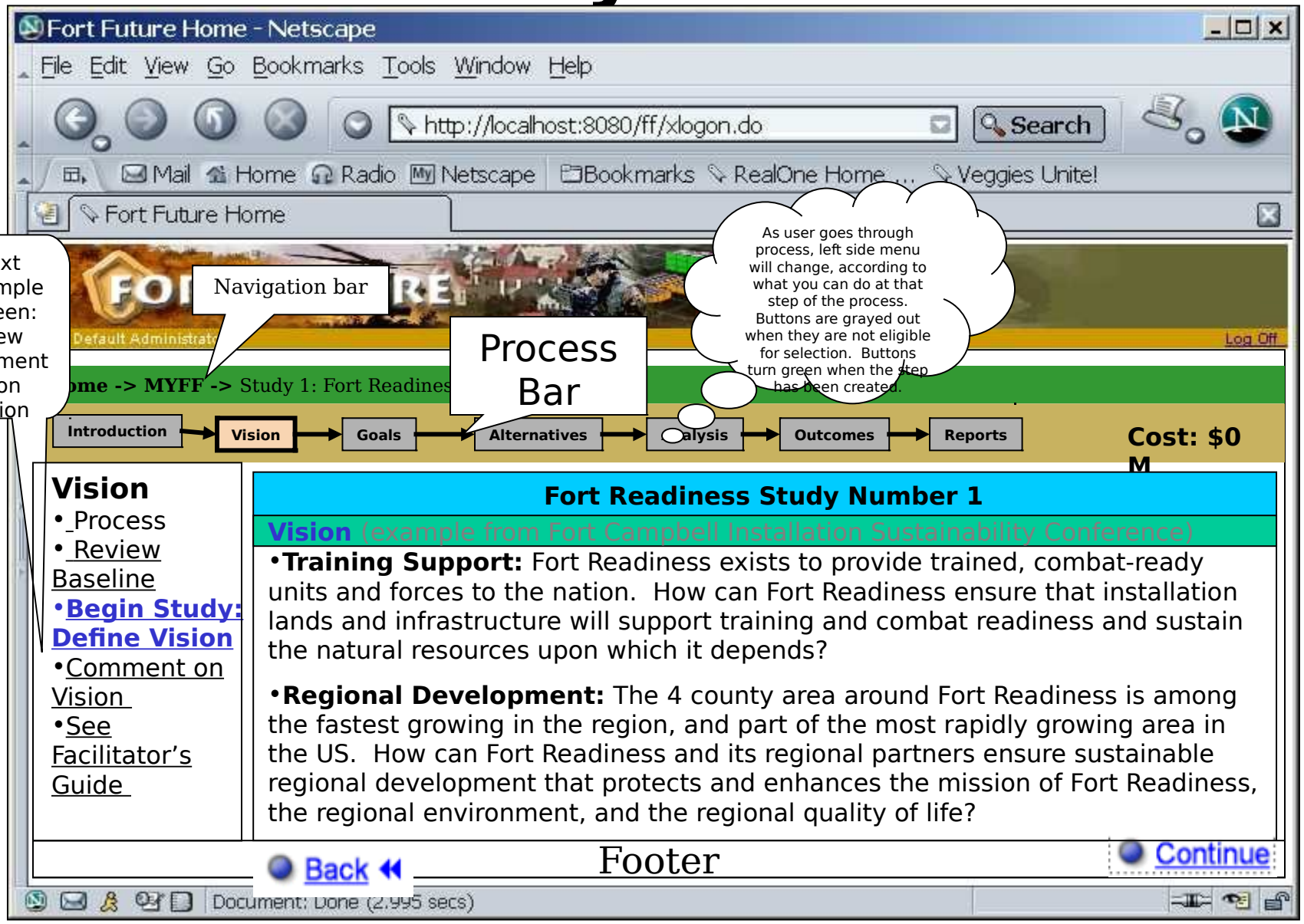


Study Introduction

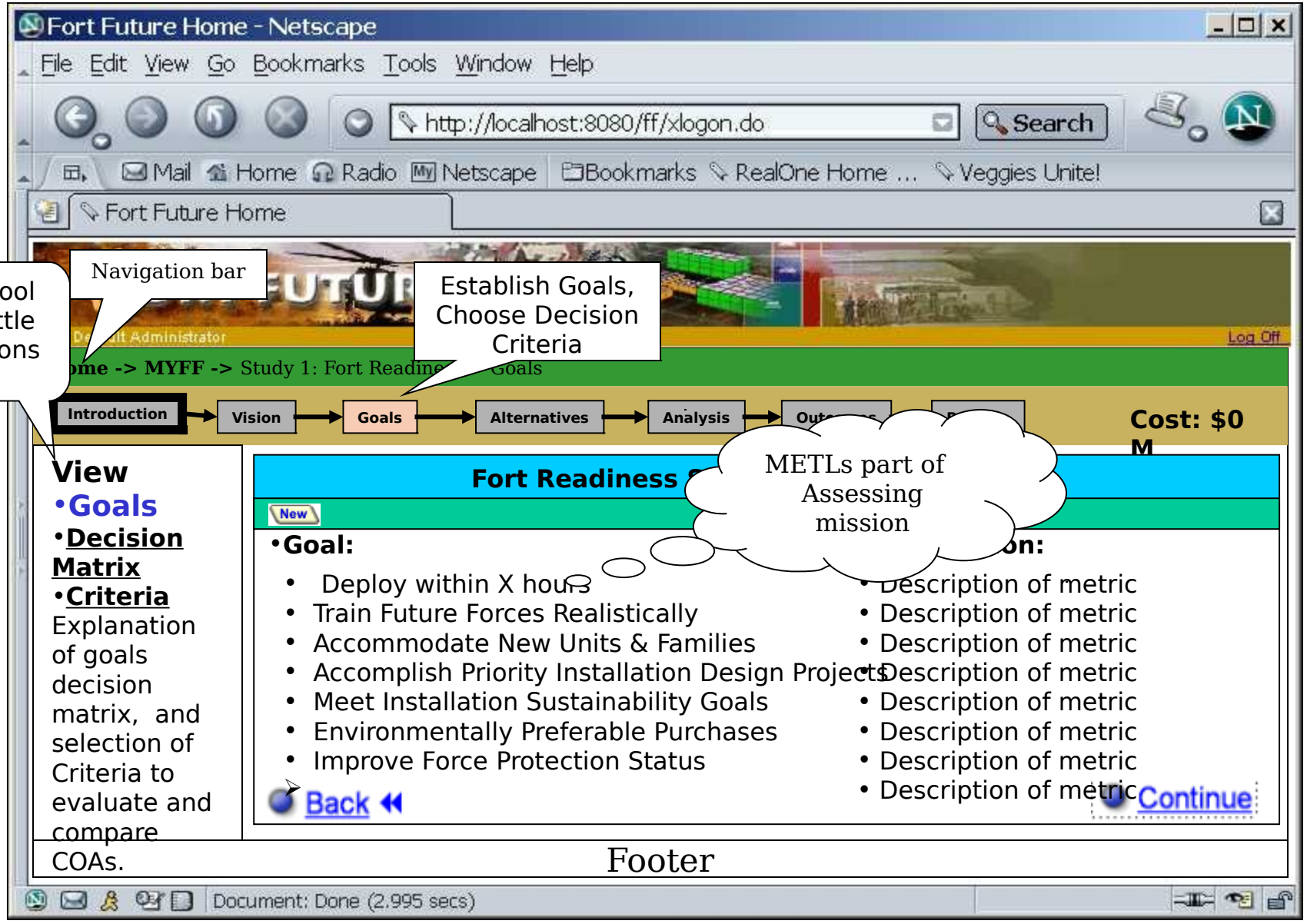

Fort Future Home - Netscape
File Edit View Go Bookmarks Tools Window Help
http://localhost:8080/ff/xlogon.do
Search
Mail Home Radio Netscape Bookmarks
Fort Future Home
Review Study Info by Selecting Topics at Left
Navigation bar
Process Bar
As user goes through process, left side menu will change, according to what you can do at that step of the process. Buttons are grayed out when they are not eligible for selection. Buttons turn green when the step has been created.
Log Off
Home -> MYFF -> Study 1: Fort Readiness > oduction
Introduction
Vision
Goals
Alternatives
Analysis
Outcomes
Reports
Cost: $0
View
Description
Scope
Scenario
Stakeholders
Schedule
Process
Baseline Data
Study Manager
Fort Readiness Study Number 1
Description
Scenario 1
Short Name: Fort Readiness Study Number 1
•This is a paragraph describing the Study You can read about it to become familiar with the study, then select 'Scope', 'Scenario', 'Stakeholders', 'Schedule', 'Process' and 'Baseline Data' to find out more.
•Information and data collected during the study will be added to useful reports such as the Real Property Master Planning Digest.
Continue
Footer
Document: Done (2.995 secs)

Review Study Information by Selecting Topics at Left

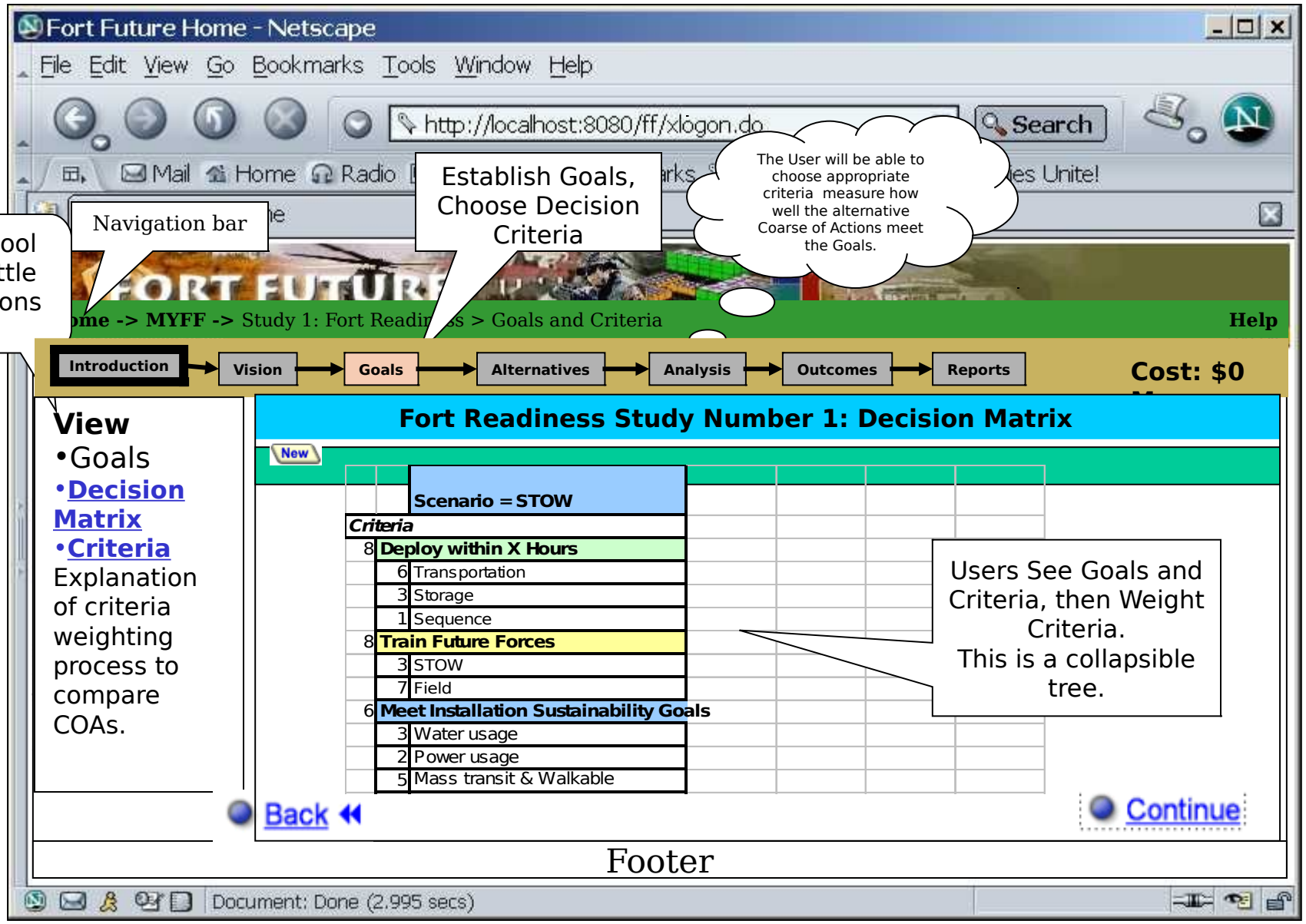
Study Vision


Fort Future Home - Netscape
File Edit View Go Bookmarks Tools Window Help
http://localhost:8080/ff/xlogon.do
Search
Mail Home Radio Netscape Bookmarks RealOne Home ... Veggies Unite!
Fort Future Home
Log Off
Navigation bar
Process Bar
As user goes through process, left side menu will change, according to what you can do at that step of the process. Buttons are grayed out when they are not eligible for selection. Buttons turn green when the step has been created.
Next example screen: view comments on vision
Introduction
Vision
Goals
Alternatives
Outcomes
Reports
Cost: $0 M
Vision
• Process
• Review Baseline
• Begin Study: Define Vision
• Comment on Vision
• See Facilitator's Guide
Fort Readiness Study Number 1
Vision (example from Fort Campbell Installation Sustainability Conference)
•Training Support: Fort Readiness exists to provide trained, combat-ready units and forces to the nation. How can Fort Readiness ensure that installation lands and infrastructure will support training and combat readiness and sustain the natural resources upon which it depends?
•Regional Development: The 4 county area around Fort Readiness is among the fastest growing in the region, and part of the most rapidly growing area in the US. How can Fort Readiness and its regional partners ensure sustainable regional development that protects and enhances the mission of Fort Readiness, the regional environment, and the regional quality of life?
Back
Footer
Continue
Document: Done (2.995 secs)

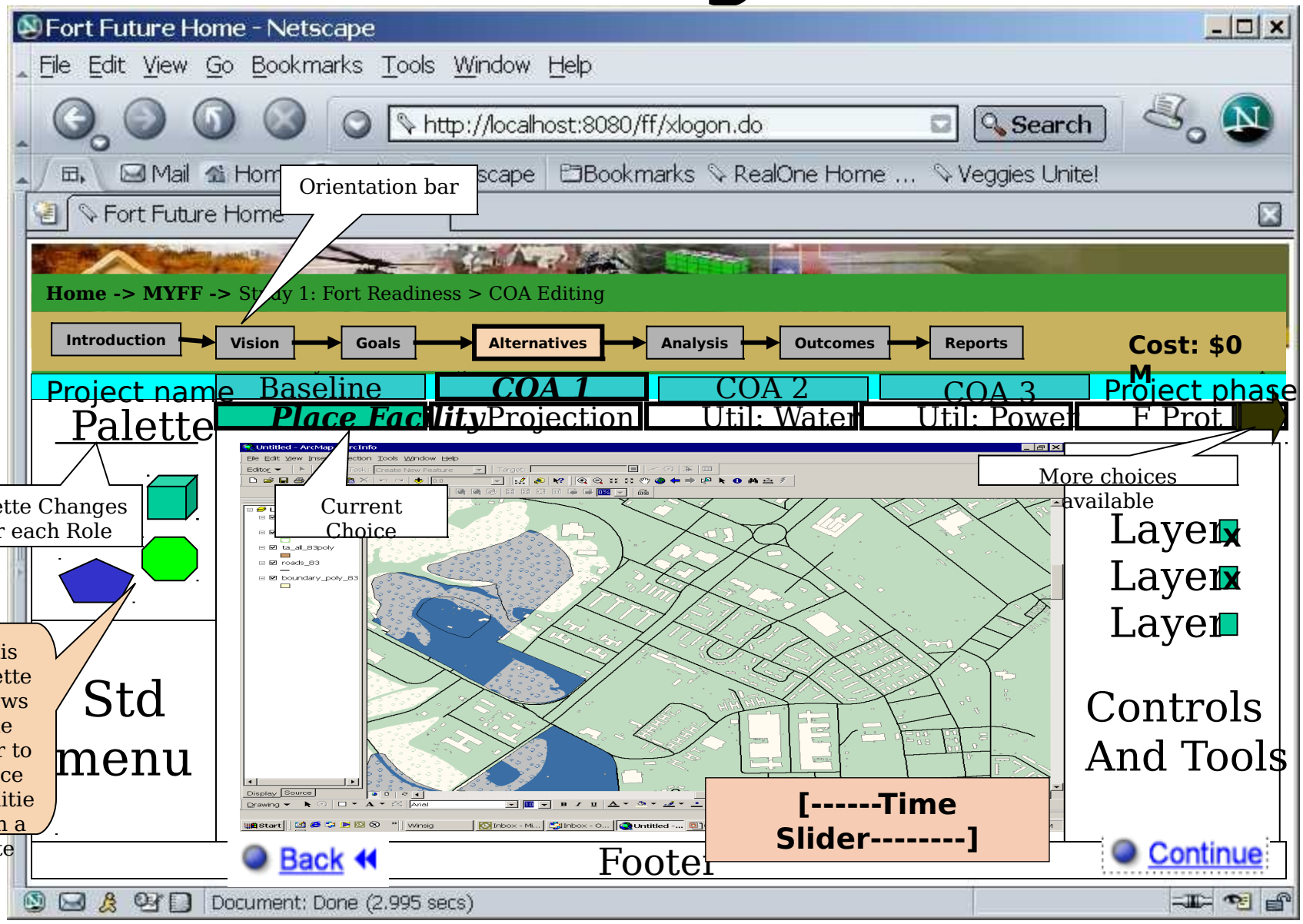
Study Goals


Fort Future Home - Netscape
File Edit View Go Bookmarks Tools Window Help
http://localhost:8080/ff/xlogon.do
Search
Mail Home Radio Netscape Bookmarks RealOne Home ... Veggies Unite!
Fort Future Home
Log Off
Navigation bar
Cool Little icons
Establish Goals, Choose Decision Criteria
Introduction
Vision
Goals
Alternatives
Analysis
Cost: $0
M
METLs part of Assessing mission
View
•Goals
•Decision Matrix
•Criteria
Explanation of goals decision matrix, and selection of Criteria to evaluate and compare COAs.
New
•Goal:
• Deploy within X hours
• Train Future Forces Realistically
• Accommodate New Units & Families
• Accomplish Priority Installation Design Projects
• Meet Installation Sustainability Goals
• Environmentally Preferable Purchases
• Improve Force Protection Status
• Description of metric
• Description of metric
• Description of metric
• Description of metric
• Description of metric
• Description of metric
• Description of metric
• Description of metric
Back
Continue
Footer
Document: Done (2.995 secs)

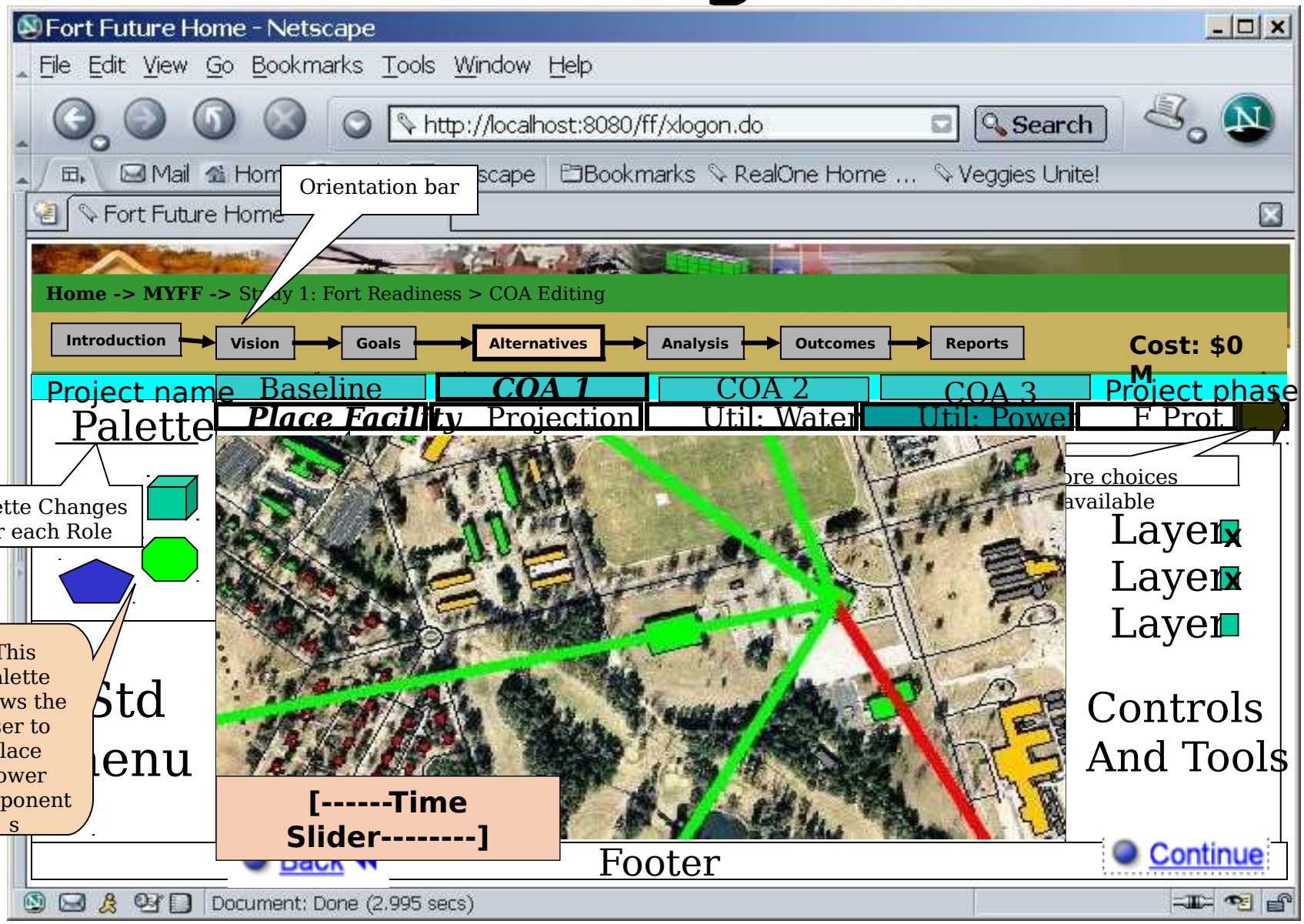
Study Decision Criteria



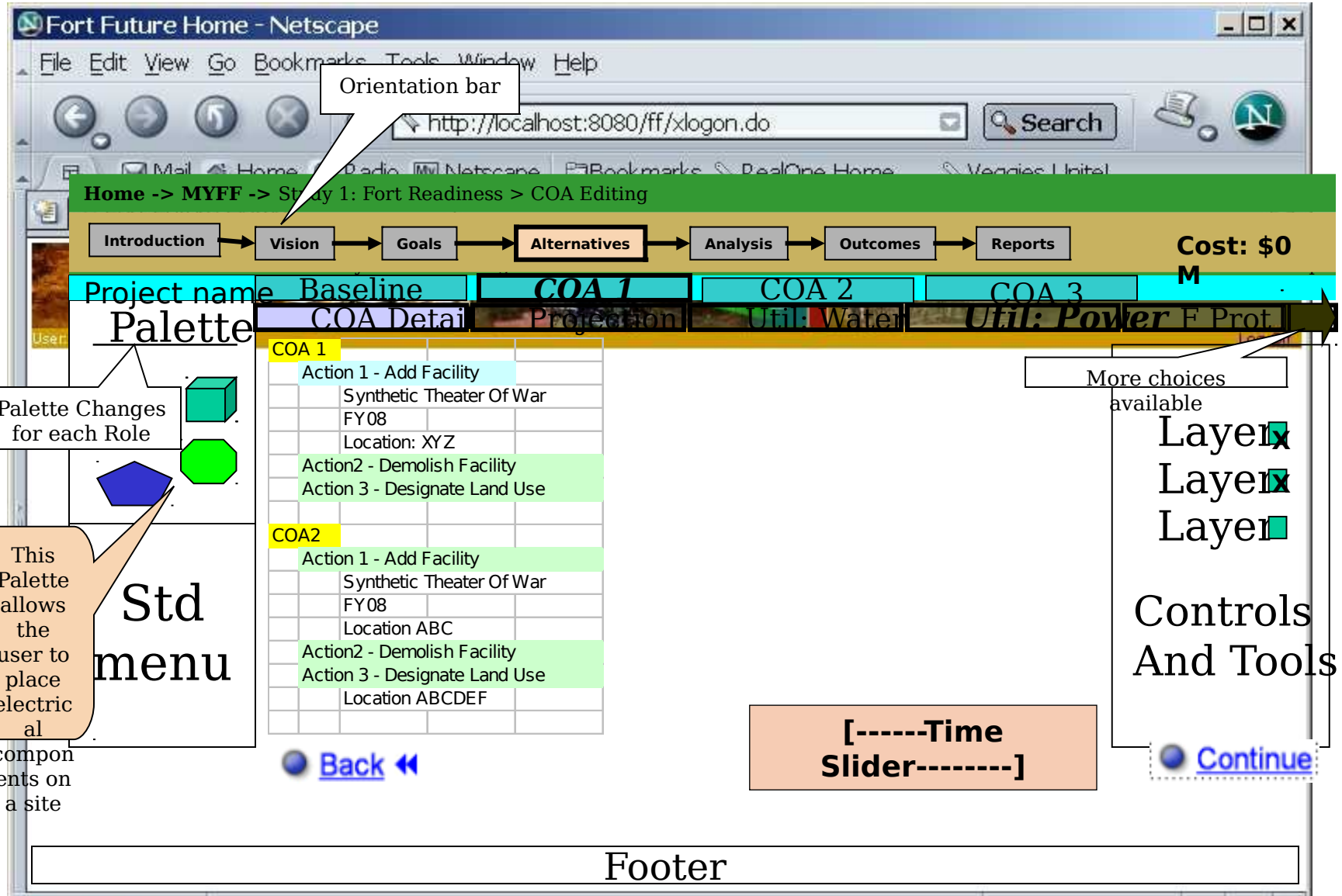
COA Editing Screen



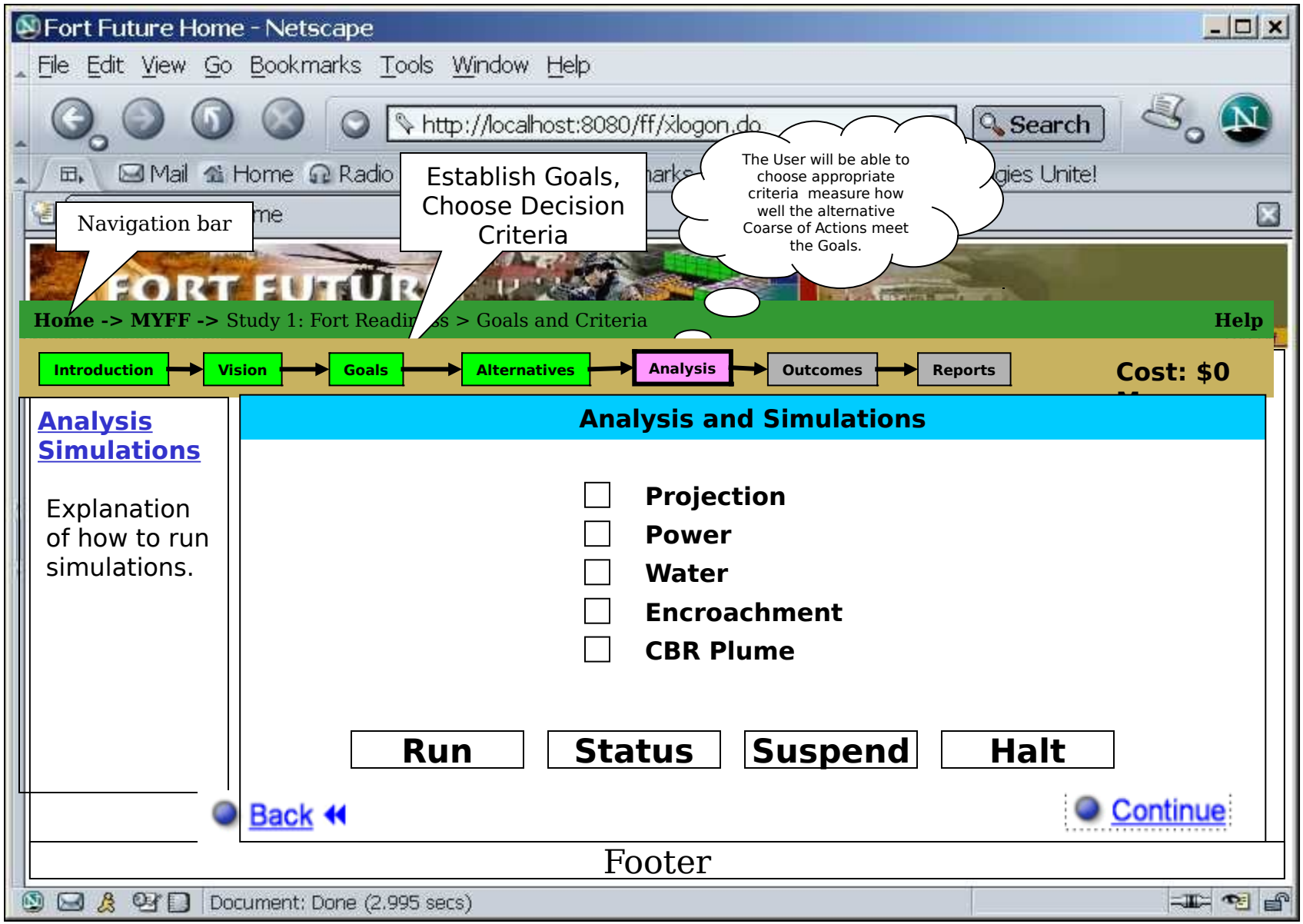
COA Editing Screen



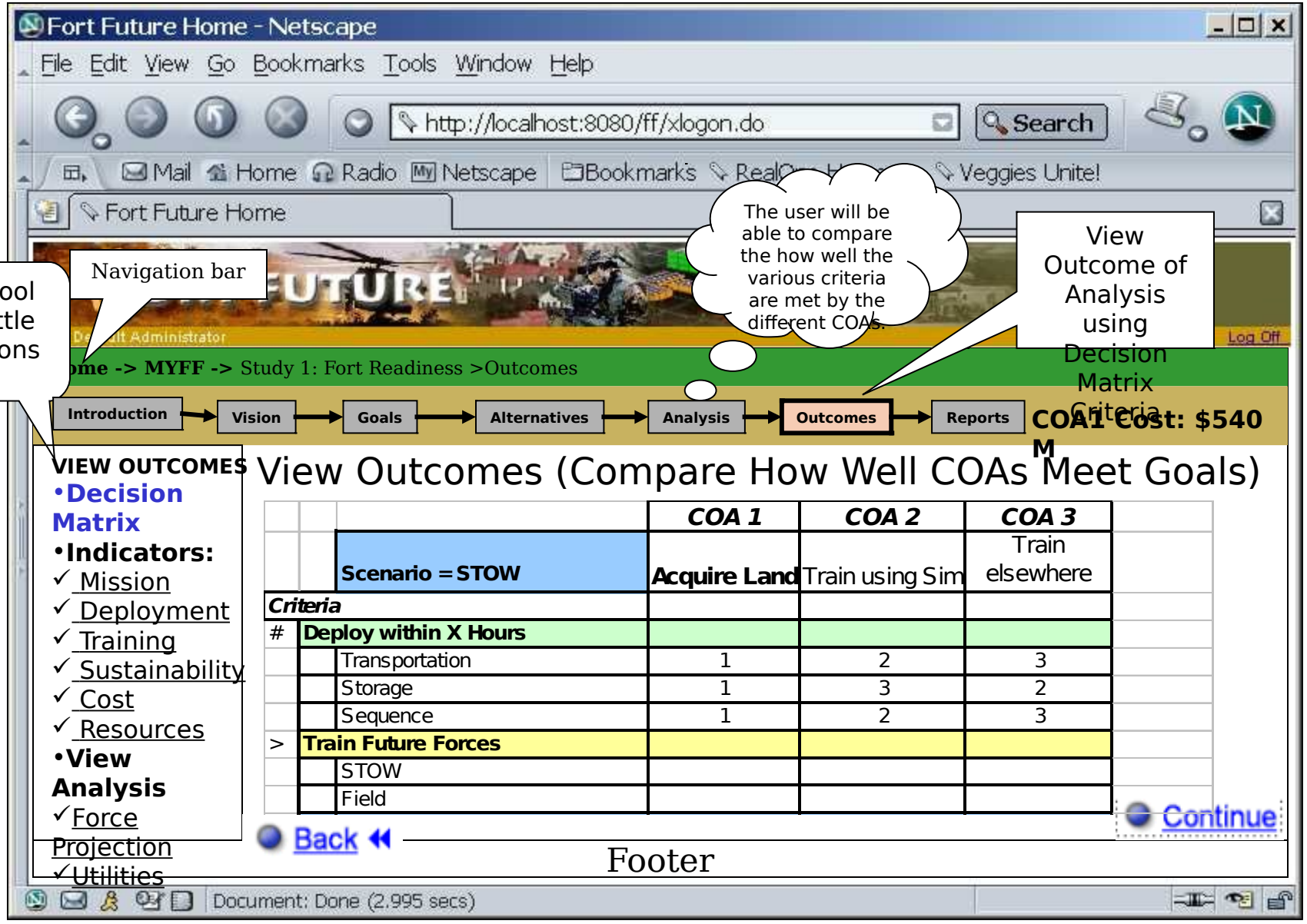
COA Editing Screen



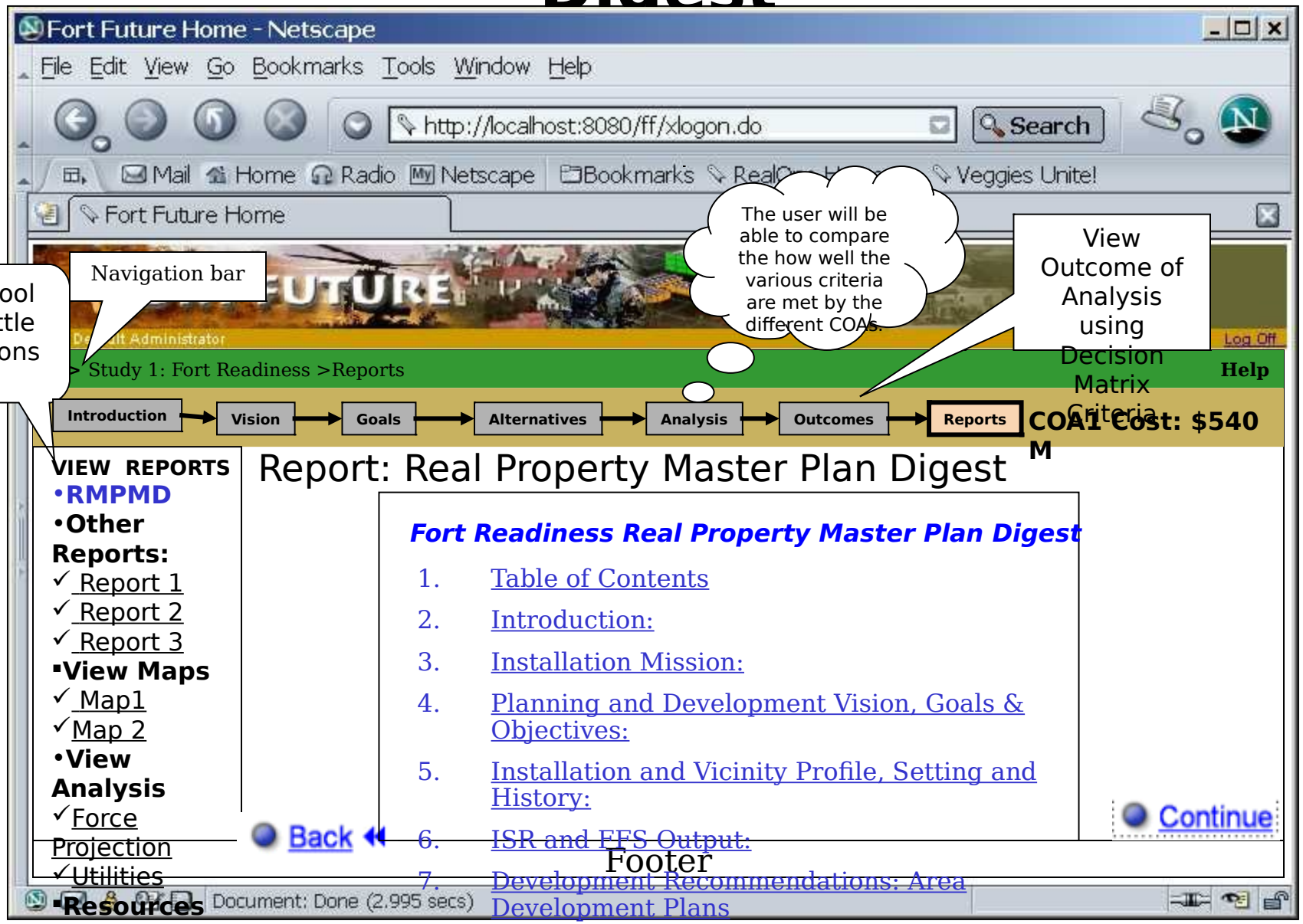
Analysis


Fort Future Home - Netscape
File Edit View Go Bookmarks Tools Window Help
http://localhost:8080/ff/xlogon.do
Search
Mail Home Radio
Navigation bar
Establish Goals, Choose Decision Criteria
The User will be able to choose appropriate criteria measure how well the alternative Coarse of Actions meet the Goals.
Home -> MYFF -> Study 1: Fort Reading > Goals and Criteria
Help
Introduction
Vision
Goals
Alternatives
Analysis
Outcomes
Reports
Cost: $0
Analysis Simulations
Explanation of how to run simulations.
Analysis and Simulations
Projection
Power
Water
Encroachment
CBR Plume
Run
Status
Suspend
Halt
Back
Continue
Footer
Document: Done (2.995 secs)

Study Outcome

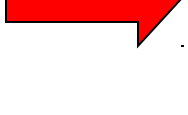


Real Property Master Plan Digest



Outline

- Introduction
- Requirements
- Scope
- System Design
- Schedule
- Planning Study Walkthrough
- Prototypes
- How you can get involved



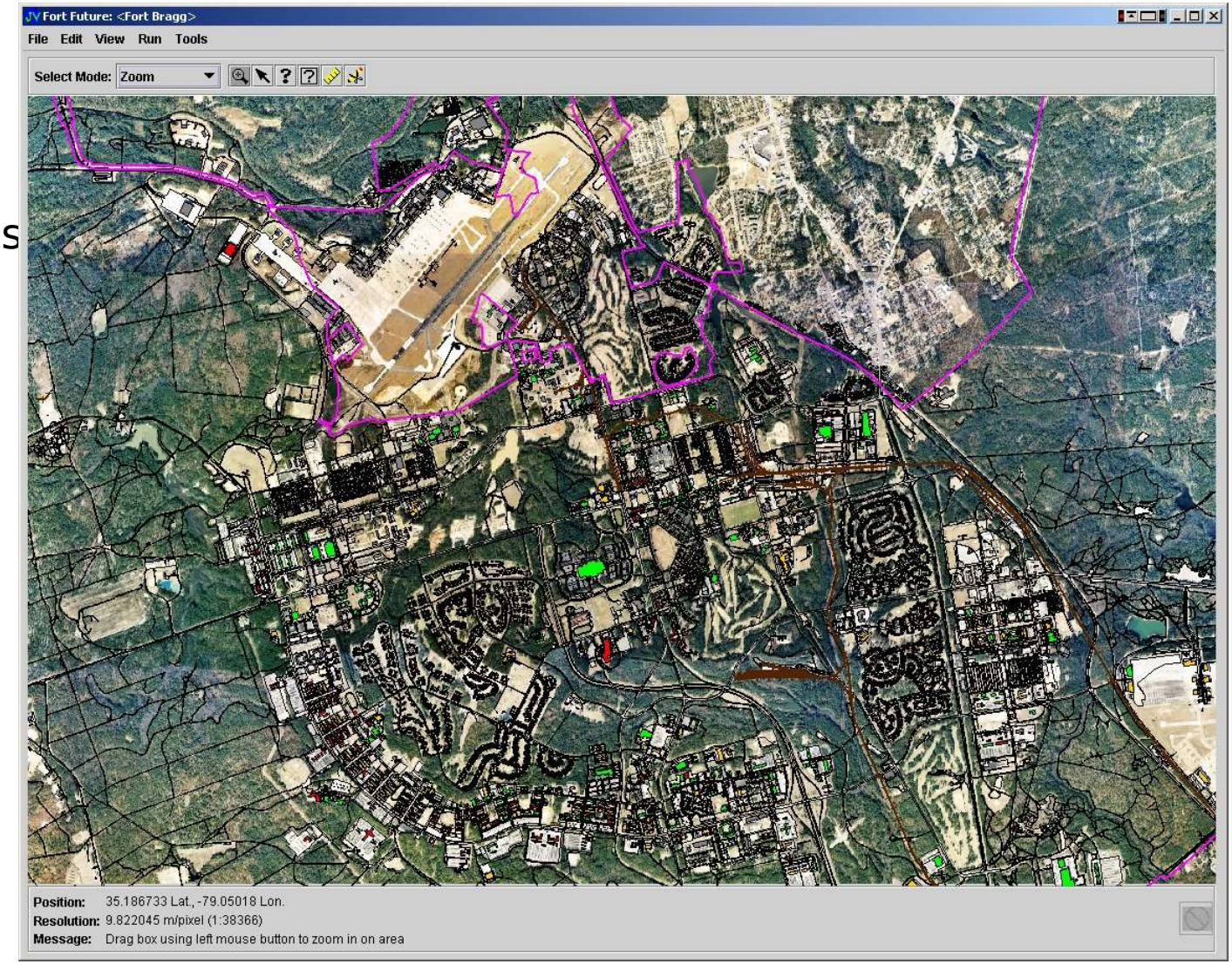
Environmental Quality and Installations

ERDC Engineer Research and Development Center

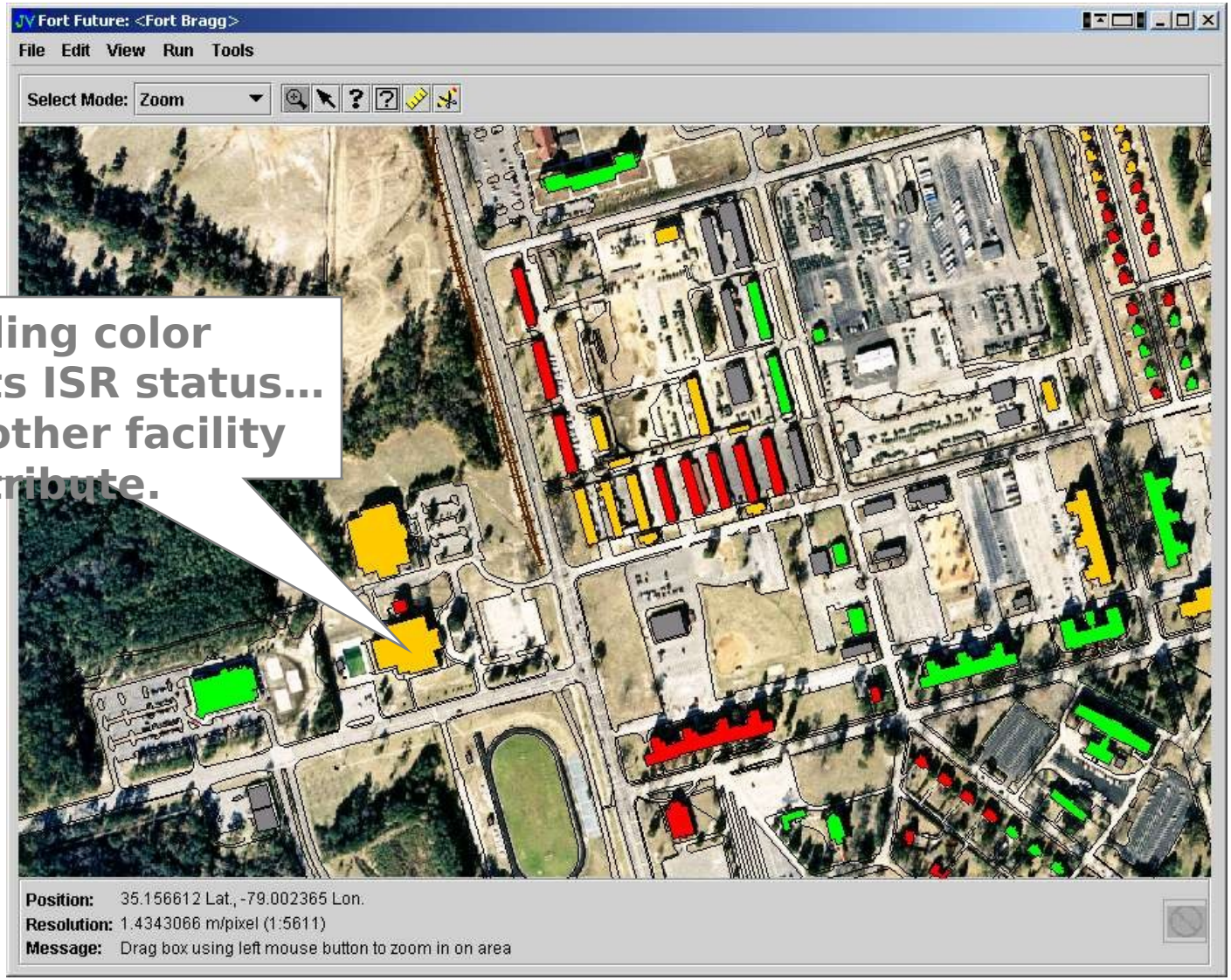
Virtual Installation

Variety of Layers for Visualization and Simulation

- Aerial Images
- Boundaries
- Rail
- Roads
- Facilities
- Utilities, etc.

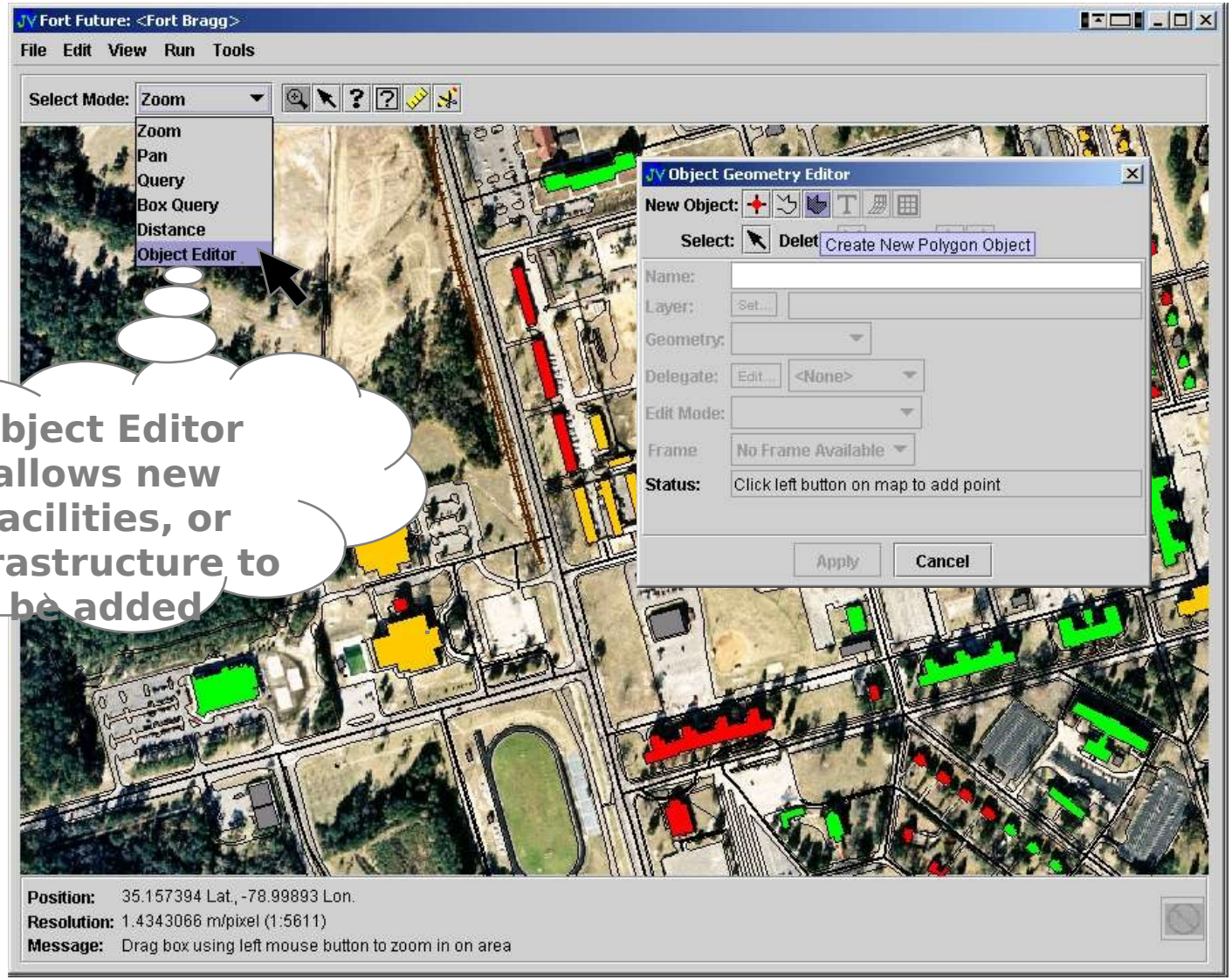

JV Fort Future: <Fort Bragg>
File Edit View Run Tools
Select Mode: Zoom
Position: 35.186733 Lat., -79.05018 Lon.
Resolution: 9.822045 m/pixel (1:38366)
Message: Drag box using left mouse button to zoom in on area

Virtual Installation


Fort Future: <Fort Bragg>
File Edit View Run Tools
Select Mode: Zoom
Position: 35.156612 Lat., -79.002365 Lon.
Resolution: 1.4343066 m/pixel (1:5611)
Message: Drag box using left mouse button to zoom in on area

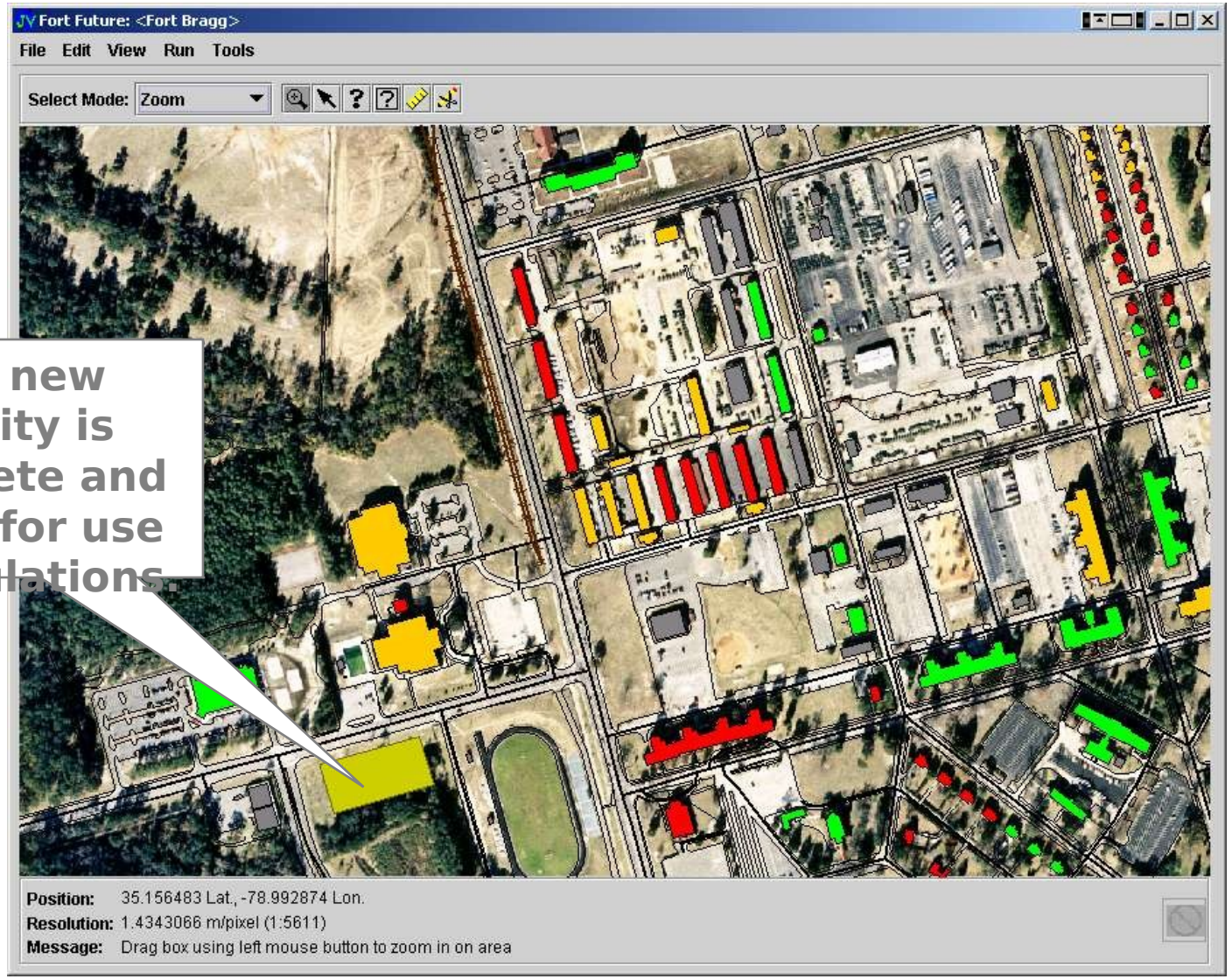
Building color represents ISR status… or, any other facility attribute.

Virtual Installation



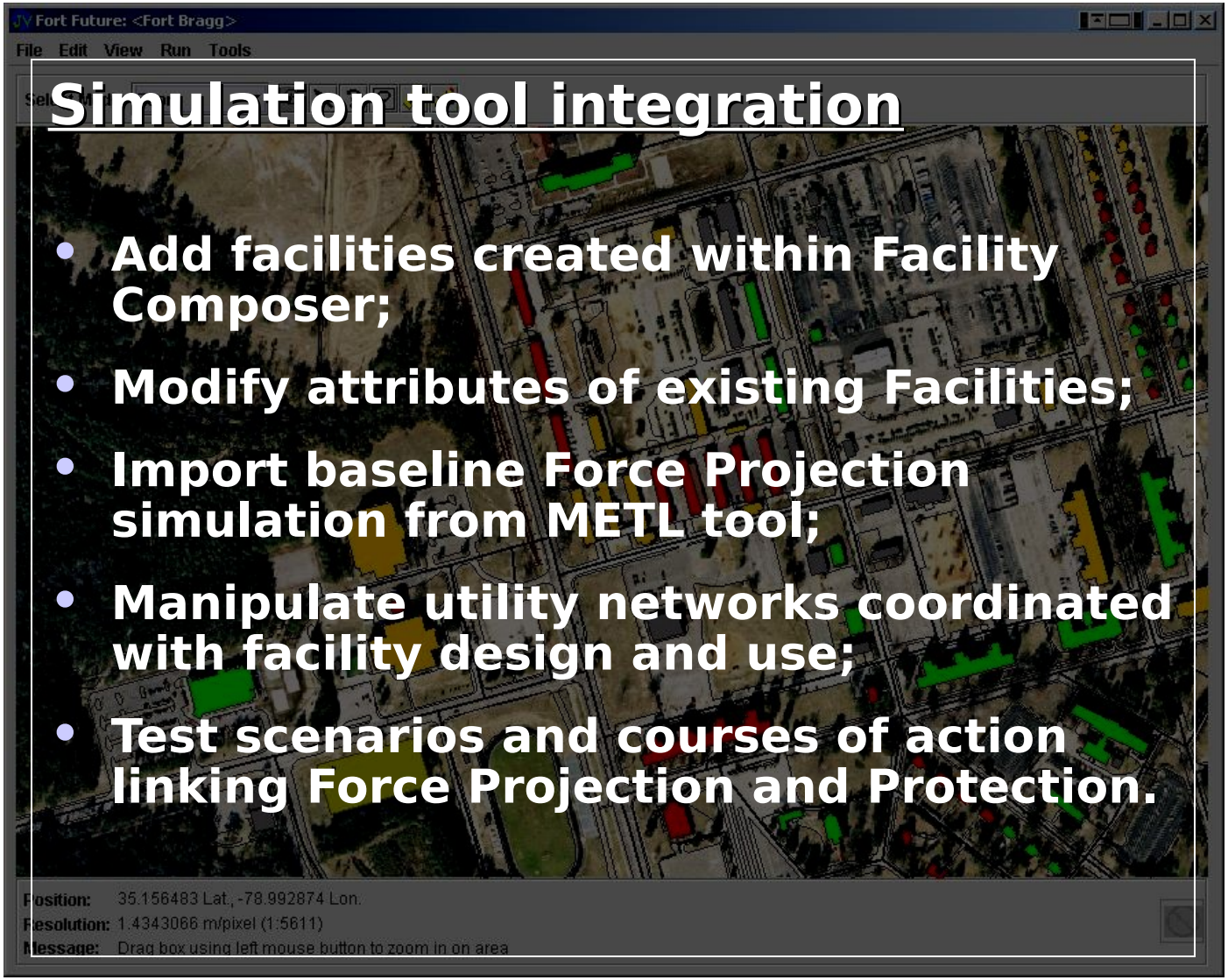
Object Editor allows new facilities, or infrastructure to be added

Virtual Installation

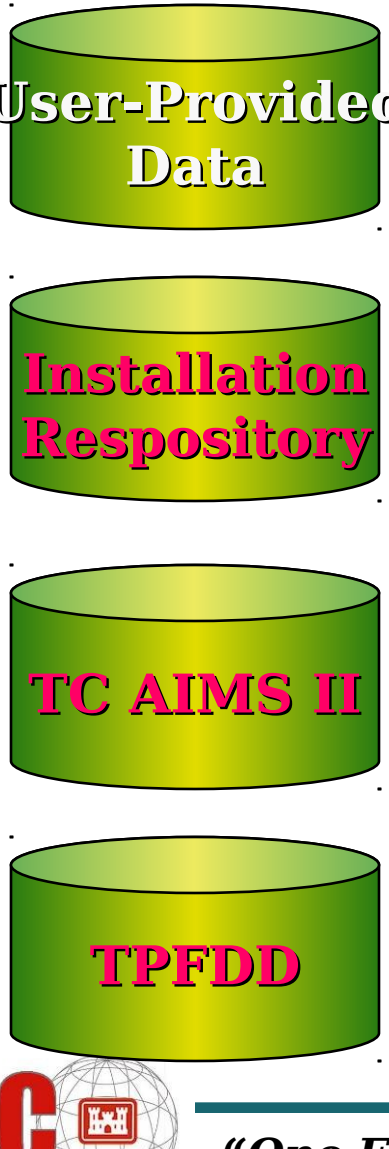

Fort Future: <Fort Bragg>
File Edit View Run Tools
Select Mode: Zoom
Position: 35.156483 Lat., -78.992874 Lon.
Resolution: 1.4343066 m/pixel (1:5611)
Message: Drag box using left mouse button to zoom in on area

The new facility is complete and ready for use in simulations.

Virtual Installation


Fort Future: <Fort Bragg>
File Edit View Run Tools
Simulation tool integration
Add facilities created within Facility Composer;
Modify attributes of existing Facilities;
Import baseline Force Projection simulation from METL tool;
Manipulate utility networks coordinated with facility design and use;
Test scenarios and courses of action linking Force Projection and Protection.
Position: 35.156483 Lat., -78.992874 Lon.
Resolution: 1.4343066 m/pixel (1:5611)
Message: Drag box using left mouse button to zoom in on area

Projection Data Requirements



Build Installation's Deployment Process and Capacities

Training Capacity, GIS Layers and existing databases such as HQ, EIS, IFS, ISR, FPS, etc

Unit Specific Deployment Data (Personnel/Logistics/Training)

Scheduling/Timelines

Environmental Quality and Installations

Power Projection

Fort Future: <Fort Bragg>
File Edit View Run Tools
Select Mode: Zoom
Position: 35.181362 Lat., -79.04682 Lon.
Resolution: 1.9104359 meters/pixel (1:5560)
Message: Drag box using left mouse button to zoom in on area

Environmental Quality and Installations

Requirement: Can I deploy on time?

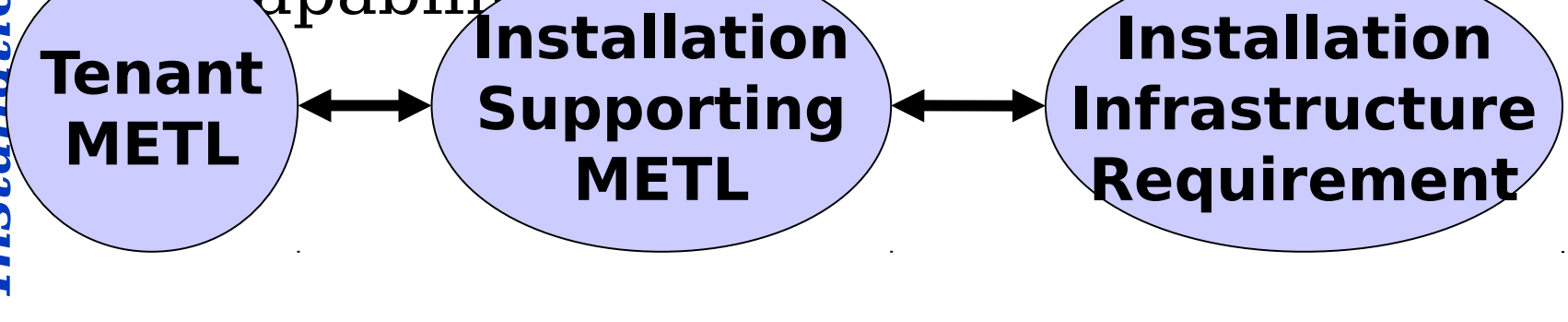
Installation Planner

- Mission Analysis and Mission Essential Task Development
- Identifies opportunities for improvement
- Builds Virtual Installation model
- Conducts Course of Action Analysis
- Start point for new or long-term actions

Environmental Quality and Installations

Installation Requirements Analysis

- Mission Essential Task List (METL)
  - Captures requirements
  - Determines capability
  - Identifies gaps in current/future capabiliti



Installation Planner

Installation METL Analysis Tool

- **Mission Analysis and mission essential task development**
  - **Determines requirements, capabilities**
  - **Identifies gaps in current / future capabilities**
- **Steps involved:**
  - **Tenant requirements determination**
  - **Mission essential tasks identification**
  - **Task decomposition**
  - **Task ownership**
  - **Conversion of task to activities**
  - **Data structure to capture activity components**
  - **Framework for process improvement**

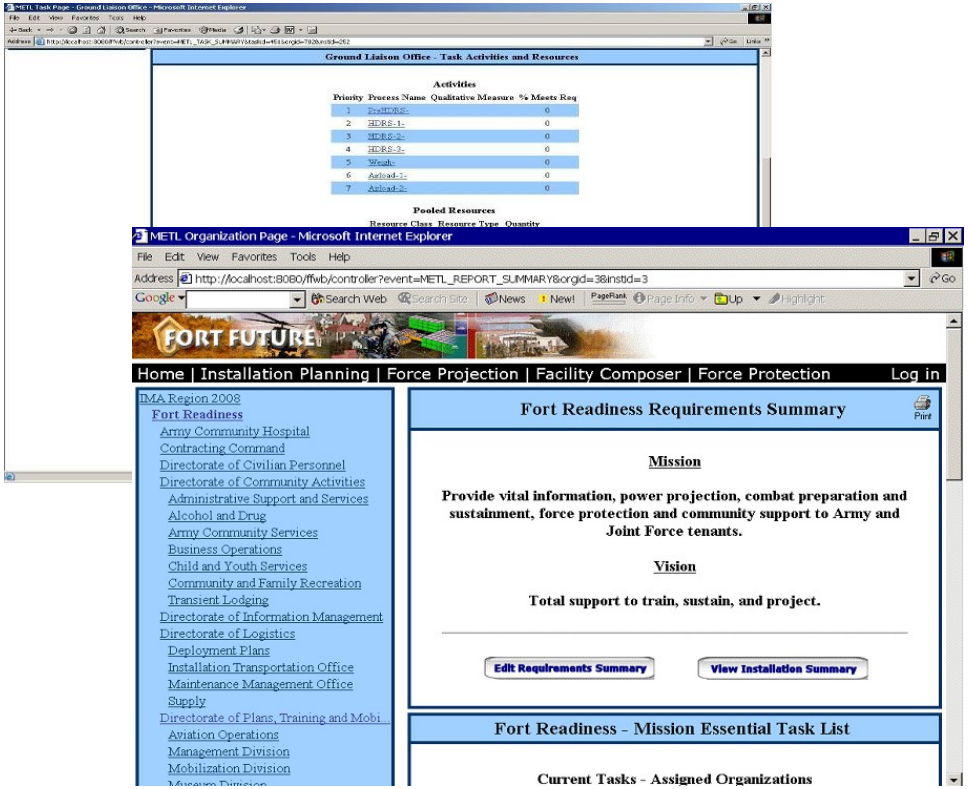
Environmental Quality and Installations

Installation Planner

Installation METL Analysis Tool

Environmental Quality and Installations

- Identifies opportunities improvement
  - Process
  - People
  - Infrastructure
  - Equipment
  - Constraints (i.e. Environmental)
  - Cost


Ground Liaison Office - Task Activities and Resources
Activities
Priority Process Name Qualitative Measure % Meets Req
Pooled Resources
METL Organization Page - Microsoft Internet Explorer
File Edit View Favorites Tools Help
Address http://localhost:8080/ffwb/controller?event=METL_REPORT_SUMMARY&orgid=38instid=3
FORT FUTURE
Home | Installation Planning | Force Projection | Facility Composer | Force Protection Log in
IMA Region 2008
Fort Readiness
Army Community Hospital
Contracting Command
Directorate of Civilian Personnel
Directorate of Community Activities
Administrative Support and Services
Alcohol and Drug
Army Community Services
Business Operations
Child and Youth Services
Community and Family Recreation
Transient Lodging
Directorate of Information Management
Directorate of Logistics
Deployment Plans
Installation Transportation Office
Maintenance Management Office
Supply
Directorate of Plans, Training and Mobi...
Aviation Operations
Management Division
Mobilization Division
Fort Readiness Requirements Summary
Mission
Provide vital information, power projection, combat preparation and sustainment, force protection and community support to Army and Joint Force tenants.
Vision
Total support to train, sustain, and project.
Edit Requirements Summary
View Installation Summary
Fort Readiness - Mission Essential Task List
Current Tasks - Assigned Organizations

Force Projection

Utilizes METL tool

- Identify processes, steps, durations, resources
- Generates scenario baseline

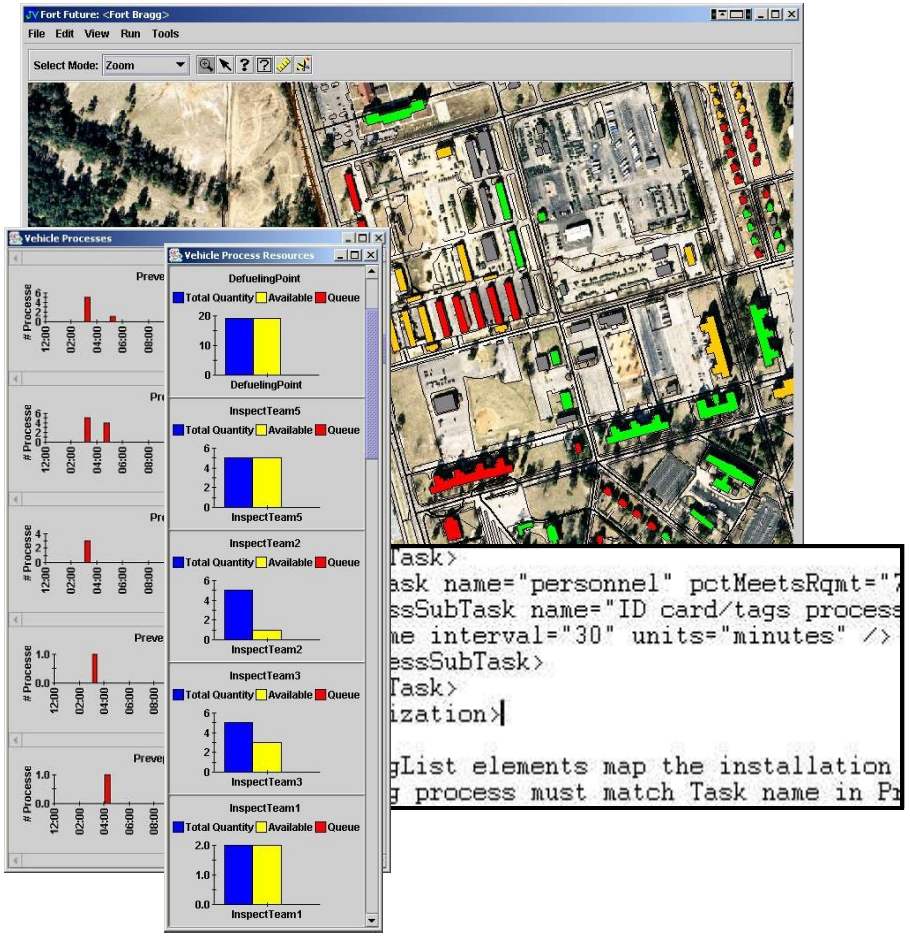
Force Projection Simulation

- Deployment Scenarios
- Alternative Courses of Action

Force Projection

Force Projection Simulation

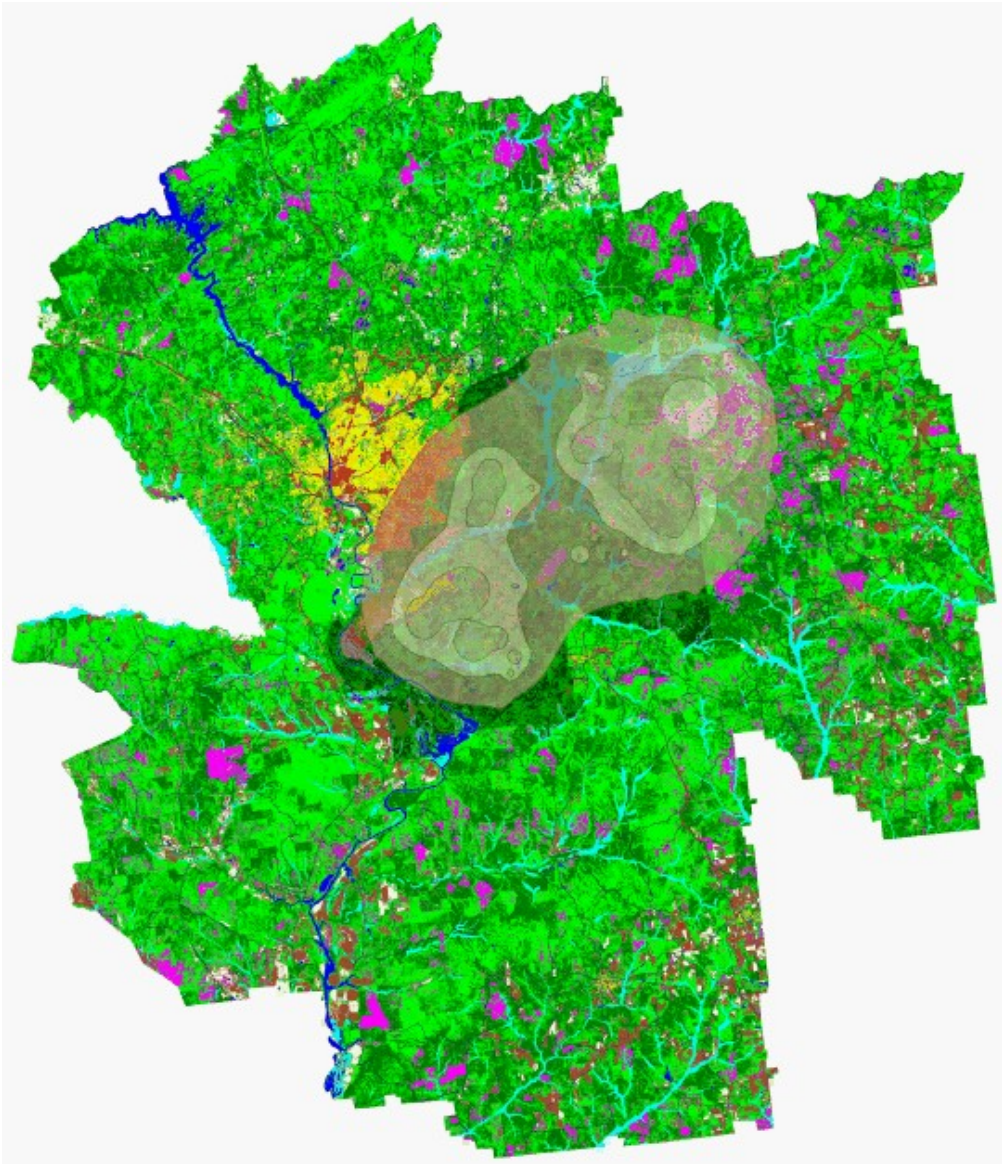
- Charts
  - Resource utilization
  - Process completion
- Text output of simulation – what the agents in the simulation are doing
- Facility status monitor



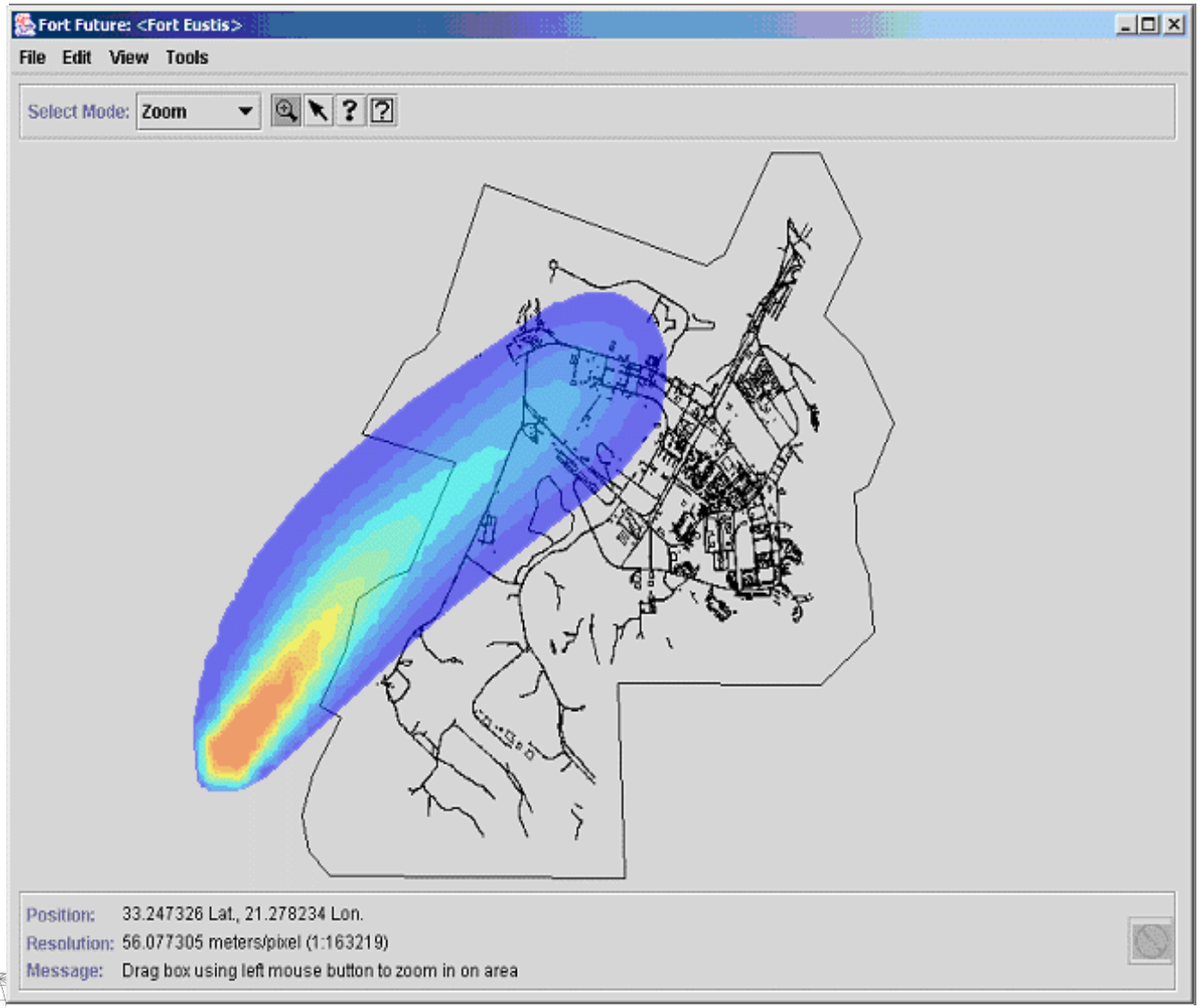
Potential Conflicts: Noise Generation and Urban Growth

Future Land Change Projections

- Interaction current/planned training
  - Noise vs Community Growth



CBRN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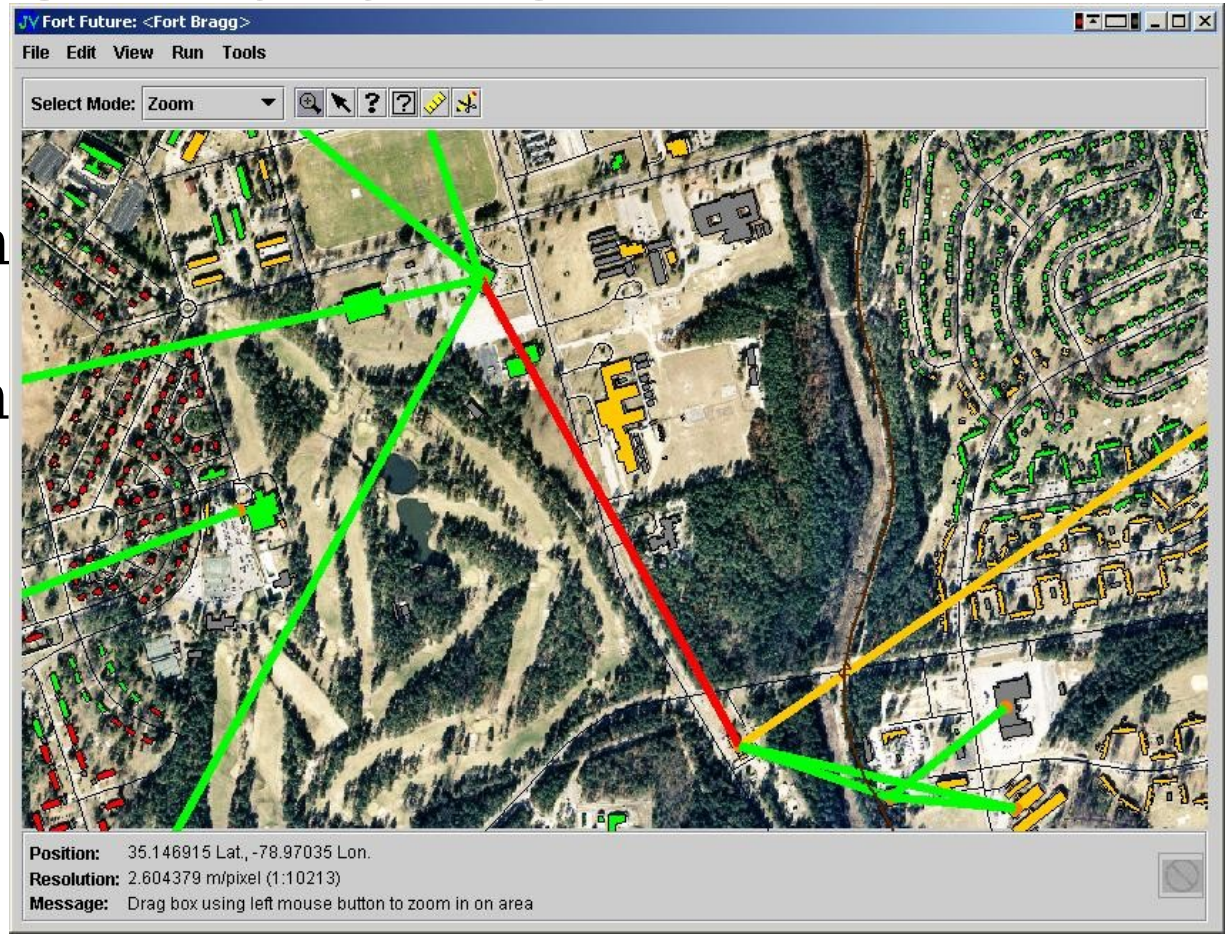
Environmental Quality and Installations

ERDC Engineer Research and Development Center

Electrical Power Simulation

- Capacity
- Vulnerability
- Interacts with other simulations in Virtual Environment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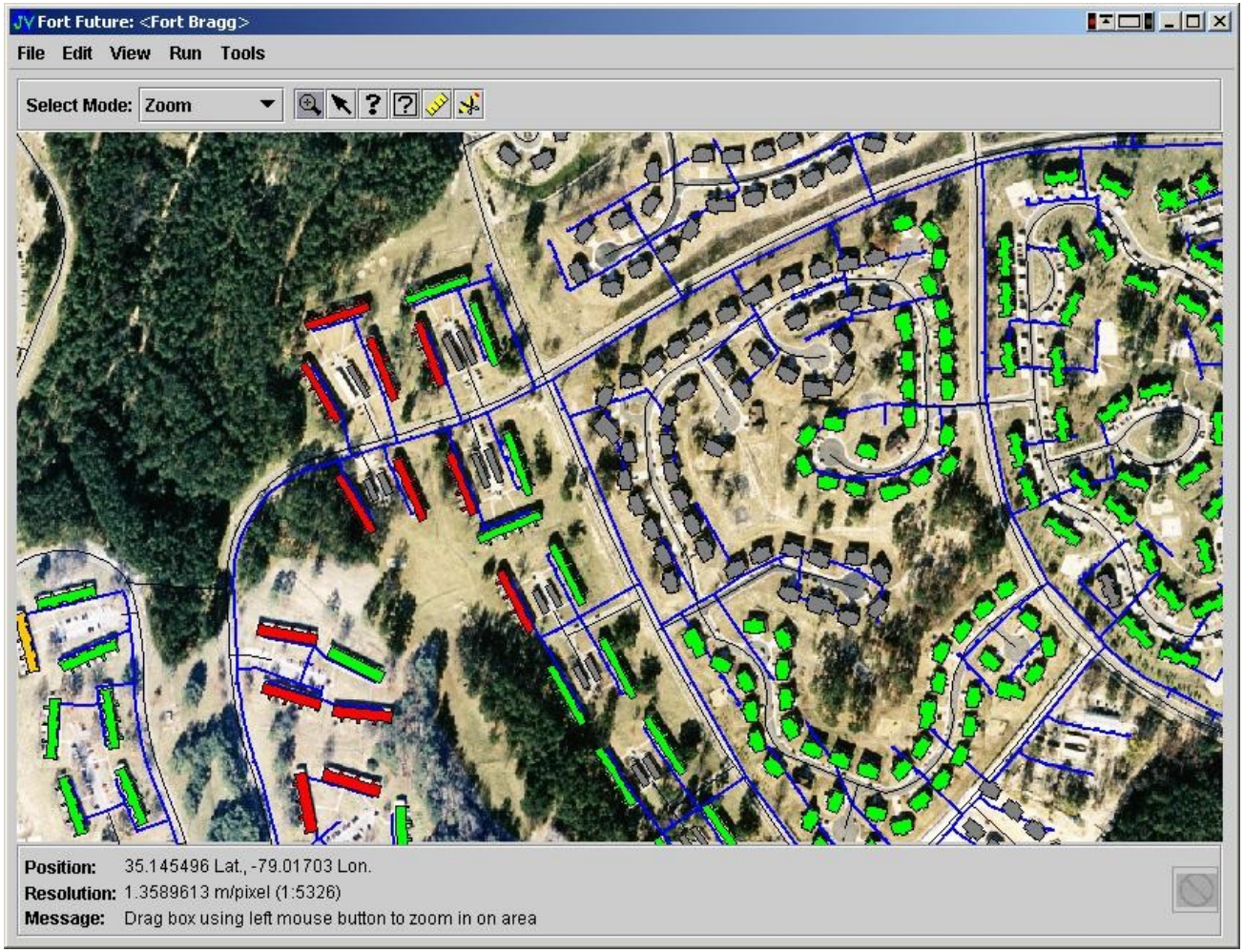
Environmental Quality and Installations

Water System Simulation

- Capacity
- Vulnerable to interruption
- Contamination
- Fuel system to follow in FY05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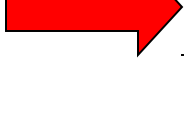
Outline

- Requirements
- Scope
- System Design
- Examples
- Schedule
- How you can get involved



For More Information

Fort Future Site: http://ff.cecer.army.mil

Facility Composer Site: http://bc.cecer.army.mil

Mike Case, FF Special Project Officer
(217) 373-7259
michael.p.case@erdc.usace.army.mil

Don Hicks, FF Project Manager
(217) 373-6712
Donald.K.Hicks@erdc.usace.army.mil

Construction Engineering Research Lab
P.O. Box 9005, Champaign , Illinois 61826

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